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ATHENS STATE COLLEGE
Athens, Alabama



McCandless Hall
1914

Founders Hall, 1842



A foggy summer morning in Athens.

Library Building
1996



Catalog
1997-1998

Athens State College

Founded in 1822

State Affiliated

Catalog & Announcements for 1997-98

Vol. XXII, No. 1

ACCREDITATION

Athens State College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, 1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone Number (404) 679-4501 to award the baccalaureate degree.

MEMBERSHIPS

The American Council of Education
American Association of Colleges for Teacher Education
Association of Collegiate Business Schools and Programs

Athens State College is approved by the Alabama State Department of Education for the training of elementary, secondary, and postsecondary school teachers. The Alabama State Department of Education is a member of the National Association of State Directors of Teacher Education Certification.

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ALABAMA ARTICULATION PROGRAM (STARS)

The Alabama Articulation Program (also referred to as STARS - Statewide Articulation Reporting System) is a computerized articulation and transfer planning system designed to inform students who attend Alabama Community Colleges about degree requirements, course equivalents, and other transfer information pertaining to specific majors at each state funded four-year institution. STARS is an efficient and effective way of providing students, counselors, and educators with accurate information upon which transfer decisions can be made. STARS is the information link between the state's public two-year and four-year institutions. The STARS database, if used properly, can prevent the loss of course credit hours, can provide direction for the scheduling of course work, and can ease the transition from one institution to another. Student's who are interested in receiving a "Transfer Guide and Contract" should contact:

The Counseling and Career Services Office
300 North Beaty Street
Athens, Alabama 35611
(205)-233-8124

NON-DISCRIMINATION

It is the official policy of Athens State College not to discriminate on the basis of race, color, sex, religion, national origin, disability, or age in its educational programs, activities, admissions, or employment as required by Title VI and VII of the Civil Rights Act of 1964 (Sexual Discrimination/Sexual Harassment); Title IX of Education Amendments of 1972; Sections 503 and 504 of the Rehabilitation Act of 1973, and the 1990 Americans with Disabilities Act.

Any person, who believes himself or herself or any specific class of individuals, to be subjected to discrimination prohibited by Title VI, Title VII, or Title IX of the Act or Regulations issued thereunder may, himself or herself or a representative, file a written complaint with the United States Commissioner of Education or with the Dean of Student Affairs at this institution (or both).

DISABILITY STATEMENT

Athens State College does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities. An ADA/504 Coordinator has been designated to insure compliance with the non-discrimination requirements contained in Section 35.107 of the Department of Justice regulations. Information concerning the provisions of the Americans with Disabilities Act, and the rights provided thereunder, are available from the ADA/504 Coordinator.

Athens State College will make every reasonable attempt to provide accommodations needed by individuals with disabilities. Accommodations will consist of working with the Division of Rehabilitation Services and the Alabama Department of Education to provide adaptive equipment, facility modification, and any other reasonable measures available to provide a satisfactory learning and working environment.

It is the responsibility of the individual to notify Athens State College of a disability which may require accommodation. If you have a disability that might necessitate adaptive materials, services, or assistance, please make this known so that the appropriate arrangements can be made. During the day, individuals may contact Maureen Chemsak, the ADA/504 Coordinator, second floor of the Student Center (233-8285); during the evening or on weekends, individuals may contact the Evening or Weekend Coordinator, first floor of the Student Center (233-6540) .

EDUCATION RIGHTS AND PRIVACY ACT OF 1974

In accordance with the Family Educational Rights and Privacy Act (Sec. 513 of PL 93-380, education amendments of 1974, which amends the General Education Provisions Act, Sec. 438) students of Athens State College are hereby informed of their right of access to their official records as described in the act.

The following is a list of directory information which may be made available regarding students of the college without their prior consent and is considered part of the public record of their attendance: (1) name, (2) permanent and local addresses, (3) telephone listing, (4) date and place of birth, (5) major fields of study, (6) dates of attendance, (7) degrees and awards received, (8) high school and other colleges and universities attended, and (9) participation in officially recognized organizations, activities, and sports. The student is entitled to request in writing, that any or all of this information not be made publicly available prior to the end of the registration period for any given term.

Any referral in this catalog to credit from educational institutions, implies that said institution is located within the confines of the United States, its territories or its military bases.

Athens State College adheres to the Drug-Free Workplace Policy. Copies of the policy are distributed to all faculty, staff and students.

The catalog is the official announcement of the programs, requirements, and regulations of Athens State College. Students enrolling in the College are subject to the provisions stated herein. Statements regarding courses, fees, and conditions are subject to change without advance notice.

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THE ALABAMA COLLEGE SYSTEM
MISSION STATEMENT

The Alabama College System, consisting of public two-year community, junior, and technical colleges and an upper division college, seeks to provide accessible quality educational opportunities, promote economic growth, and enhance the quality of life for the people of Alabama.

THE PROGRAMS, CURRICULA, AND FEES AS SET FORTH IN THIS CATALOG ARE SUBJECT TO CHANGE AT ANY TIME AT THE DISCRETION OF ATHENS STATE COLLEGE OR THE ALABAMA STATE BOARD OF EDUCATION. BECAUSE OF THE POSSIBILITY OF CHANGE OR UNDETECTED ERROR, IMPORTANT POINTS OF FACT AND INTERPRETATION SHOULD BE CONFIRMED BY THE APPROPRIATE COLLEGE OFFICIAL.

GENERAL INFORMATION

MISSION

Athens State College is a baccalaureate degree granting institution offering coursework at the junior and senior level. Located in northern Alabama, Athens State College acknowledges a commitment to serve transfers of accredited junior, community, and technical colleges as well as those from other institutions of higher education. The College prepares students for professional careers, graduate school, lifelong learning, and enrichment. The College, through individual attention, quality teaching, and a varied course delivery system assists students in the timely achievement of their professional and career goals. In addition, Athens State College offers programs of continuing education and community services that provide a variety of cultural and professional opportunities to the people in our region. Governed under the authority of the State Board of Education, Athens State College provides affordable education in an environment which recognizes diversity and nurtures the discovery and application of knowledge.

GOALS

1. To provide educational opportunity to postsecondary students through carefully planned and implemented programs of study.
2. To serve the student effectively and efficiently by providing varied scheduling and cooperative arrangements with other institutions.
3. To recruit, retain, and promote professional development of qualified faculty and staff.
4. To provide and maintain appropriate learning resources which are supportive of student learning, quality teaching, scholarly research, diversity, and technological proficiency.
5. To develop and maintain periodic internal evaluation to ensure that all programs are operating within a manner consistent with the mission of the College.
6. To provide opportunities for students to expand their intellectual, social, and cultural horizons.
7. To provide and maintain student services which furnish necessary information, financial assistance, guidance counseling to assist progress toward personal, academic, and career goals.
8. To promote and maintain effective student recruitment and retention.
9. To promote the use of appropriate College and community resources to facilitate educational and training programs for the diversified needs of business, industry, education, and government in addition to providing cultural and intellectual enrichment.
10. To acquire and administer efficiently and effectively all fiscal resources.
11. To provide, develop, and maintain a physical plant appropriate for the support of the College programs.
12. To effectively communicate the College's vision and goals as a baccalaureate granting institution to internal and external constituencies.

GOVERNANCE

Athens State College is a baccalaureate degree granting institution operating under the control of the Alabama State Board of Education. The president is the chief executive officer of the College and is directly responsible to the State Board of Education through the Chancellor.

HISTORY

Athens State College is both the oldest and the youngest institution of higher education in Alabama's state educational system. The College was founded in 1822 by local citizens who purchased five acres of land, erected a building, and began Athens Female Academy. Ownership of the school was transferred in 1842 to the Tennessee Conference of the Methodist Church. With the birth of the North Alabama Conference of the Methodist Church in 1870, the College came under the jurisdiction of that body.

On May 10, 1974, the Board of Trustees requested from the North Alabama Conference of the United Methodist Church that the College seek affiliation with the State of Alabama. The conference, at its annual meeting in June, 1974, gave the Board of Trustees this permission and authorized the transfer of the college to the State of Alabama.

In June 1975, the College was accepted by the Alabama State Board of Education subject to the appropriation of operating funds by the Alabama Legislature. Later that year, the Legislature appropriated funds for the operation of the College to serve the graduates of state junior, community, and technical colleges/institutes.

The institution's name has changed several times in its 174 year history, following adjustments in purpose and governance. Athens Female Academy, upon transfer to the Tennessee Conference of the Methodist Church in 1842, became Athens Female Institute. Then in 1889 after having been transferred to the newly formed North Alabama conference, the college was known as Athens Female College. In 1931, the College became co-educational and was known as Athens College. In 1975, when the institution became part of the state educational system, it was renamed Athens State College, marking the initiation of an era of increased opportunity for service. The long history of service by the College is the foundation upon which the future of the College rests.

ACCREDITATION

Athens State College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the baccalaureate degree (SACS, 1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone: (404) 679-4501).

BUILDINGS

Brown Hall

Brown Hall serves as the administrative building. It contains the offices for the President, the Dean for Academic Affairs, and the Special Assistant to the President for External Affairs.

Chasteen Hall

Chasteen Hall, a classroom building, is located one block west of the main campus at the corner of Clinton and Hobbs Street.

Carter Physical Education Center

The gymnasium, Olympic-size swimming pool, weight room, faculty offices, campus recreation office and classrooms are housed in the Carter Physical Education Center.

Founders Hall

Founders Hall contains the Business Office, the Office of Alumni Affairs,Reading and Math Clinic, faculty offices, classrooms, offices for the School of Business and the School of Humanities and Social Sciences.

Library

The Library is located in a new building located at the corner of Pryor Street and Elkton Road.

McCain Hall

McCain Hall contains offices for the School of Education, Science in Motion (chemistry and biology), and classrooms.

McCandless Hall

McCandless Hall contains a small theater, faculty offices, and classrooms.

Naylor Hall

Naylor Hall contains classrooms and offices for faculty.

Sanders Hall

Sanders Hall is a co-educational residence hall and serves as a residence hall for the athletes.

Sandridge Student Center

Sandridge Student Center contains offices for the Dean of Student Affairs, financial aid, student activities, housing, counseling and career services, admissions/records, food service, bookstore, ballroom, recreation areas and meeting rooms.

Waters Hall

Waters Hall contains classrooms and offices for the School of Science and Mathematics.

DIRECTORY OF SERVICE AREAS

Academic Affairs

The Dean of Academic Affairs' office is located on the top floor of Brown Hall. The Dean of Academic Affairs and staff are available to assist you in your academic concerns. Appointments may be made by calling 233-8214. For information concerning degree options contact: The School of Business, Dr. Jim Haynes, School Dean, 233-8116; the School of Education, Dr. Jonita Haynes, School Dean, 233-8187; the School of Humanities and Social Science, Dr. Curtis Coleman, School Dean, 233-8266; and the School of Science and Mathematics, Dr. Tom Jandebeur, School Dean, 233-8254.

Alumni Association

The Athens State College Alumni Association's mission and goal is to enhance the feeling of loyalty and commitment to the College and its alumni. It provides services and programs for its thousands of alumni throughout the world. All functions and services are coordinated and administered by the Office of Alumni Affairs located in Founders Hall. The Athens State College Alumni Bulletin and other alumni publications keep the active alumni, their families and friends informed about the College and the association. Traditional programs such as the annual Homecoming Weekend Festivities, the Fifty-Year Club Celebration, and the Alumni Scholarship Program, in addition to chapter meetings, insure opportunities for socialization and sharing among the Athens State College family of alumni, students, faculty, staff and friends. Information regarding alumni events may be obtained by calling 233-8275.

Bookstore

Located on the lower level of the Student Center, the Bookstore carries a full line of college textbooks, instructional and educational materials, and a variety of items incidental to student needs. The Bookstore is open from 7:45 a.m. until 6:00 p.m., Monday through Thursday, and from 7:45 a.m. until 4:30 p.m. on Fridays, except for holidays. For information concerning book purchase or buy-backs, call 233-8249.

Business Office

The Business Office, located in Founders Hall, handles financial transactions including check cashing and the issuance of campus parking permits. Should you need information regarding financial affairs call 233-8204 and the Dean of Financial Affairs' secretary will direct you to the proper extension.

Center for Economic Education

Athens State College sponsors a Center for Economic Education for the purpose of improving the level of economic understanding in the North Alabama area. As a network member of the Alabama Council on Economic Education and as an affiliated member of the National Council on Economic Education, the ASC center sponsors and conducts in-service training programs for elementary and secondary teachers employed by local school systems. Dr. James F. Haynes and Dr. Jane Knight serve as the Director and Associate Director of the Center.

Continuing Education and Community Services

Continuing Education and Community Services are an integral part of Athens State College and are primarily concerned with the special studies aspects of the educational process within the College and the community. The role of Continuing Education and Community Services is prescribed in Criteria 4.6 of the College Delegate Assembly of the Southern Association of Colleges and Schools. Basic programs are developed through the academic areas to meet the following needs: (1) non-credit courses, (2) seminars, (3) conferences, (4) insti-

tutes, (5) workshops, and (6) CEU courses. (Athens State College does not accept continuing units (CEU's) for academic credit.)

Curriculum Lab

The Curriculum Lab is a resource center providing materials and services for students enrolled in the Teacher Education Program. The Lab houses elementary and secondary texts, teacher editions, and resource materials for most subject areas taught in the nation's schools, as well as lesson planning resources. The Curriculum Lab is located on the top floor of McCain Hall, Room 203. Lab hours are posted quarterly.

Library

The Athens State College Library, established in 1842, is located on the corner of Pryor Street and Elkton Road, has holdings in excess of 83,000 volumes and subscribes to 336 journals and magazines. Journals may be accessed through print and computerized indexes, such as ABI-INFORM, ERIC, Academic Abstracts, and Newsbank. Holdings of the library are enhanced by membership in regional and national consortia: the Alabama Library Exchange, the Library Management Network, the Southeastern Library Network, and the Network of Academic Libraries (NAAL). Special collections include rare books, College archives, local history files, and an extensive religion collection. The staff is committed to research assistance. Library orientation is provided through individual or scheduled group sessions. A variety of informational handouts is also available. The library is open 80 hours per week (seven days a week), except for holidays. The telephone number for the library is 233-8218.

Math Laboratory

The Math Laboratory is located in Waters Hall, Room 4. It offers video-taped lectures with facilities for viewing, computers with a variety of math-related software and personal tutorial assistance. Lab hours change quarterly.

Reading and Math Clinic

The Reading and Math Clinic, located in Founders Hall, was established in the 1983-84 school year to fulfill the clinical needs of students in the School of Education and to meet the community's needs for a tutoring and enrichment center. In 1985, the clinic was presented the Program of Excellence in Teacher Education Award by the Alabama Association of Colleges for Teacher Education. The Clinic follows the same calendar year as the College, and serves children in kindergarten through grade eight. Tutoring services are provided in the areas of reading and math for a minimal fee of $50.00 for ten sessions.

Redstone Arsenal Extension

Athens State College operates an extension site on Redstone Arsenal, 876-7561. The Extension Office is located in Building #3218. The office is open Monday through Friday from 8:30 a.m. until 4:30 p.m. For the convenience of Athens State students who attend the extension, admission procedures, counseling, registration and other school business may be taken care of through the Extension Office. Classes are held in various buildings. Any Athens State College student may take courses at the Extension, however, active duty military, military dependents, retirees, dependents of retirees, and civil service employees at Redstone Arsenal have priority. Only priority students may register at the Extension. Other students must register at the main campus and may take courses on a space available basis. For further information contact Shirley Williams, 842-9708 or Nancy Bynum, 876-7561.

Servicemembers Opportunity Colleges General Registry

Athens State College has been designated as a member of the Servicemembers Opportunity General Registry. Athens State is committed to providing access to quality programs for military personnel. Program information may be obtained from the office of the Dean for Academic Affairs, 233-8214. Servicemembers Opportunity Colleges (SOC) are sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community and Junior Colleges (AACJC).

Student Affairs Services

The Dean of Student Affairs' office is located on the top floor of the Sandridge Student Center. Student Affairs Services are organized as follows:

- Admissions Office, Lower level of Sandridge Student Center 233-8220
- Athletic Office, Carter Physical Education Center 233-8140
- Campus Recreation and Intramurals, Carter Physical Education Center 233-8277
- Counseling and Career Services (Career Services, Counseling, Cooperative Education, Disabilities Coordinator, Admissions Counselor, Veterans Affairs, International Student Adviser, Testing, and the Recruitment Office), Suite 230, top floor of the Sandridge Student Center 233-8124, 233-8285 or 233-8180
- Housing Office and Minority Affairs, Lower level of Sandridge Student Center 233-8129
- Printing and Publications (Post Office included), Lower level of Sandridge Student Center .. 233-8210
- Records Office, Lower level of Sandridge Student Center 233-8165
- Student Activities Office, top floor of the Student Center 233-8227
- Student Financial Services, Room 210 of the Student Center 233-8170

Writing Center

The Writing Center (located in Founders 210) offers free assistance to the ASC community—students, faculty, and staff. It is staffed by a director who coordinates services through student tutors proficient in writing skills and who are computer-literate so that they may assist in one-on-one consultation as well as in the use of software tutorials. The purpose of the Center is to provide instruction, encouragement, and confidence to those who need to improve writing skills as well as to offer assistance for those who wish to enhance their writing skills.

ADMISSION OF STUDENTS AND APPLICATION INFORMATION

ADMISSION OF STUDENTS

Admission of Junior College Transfer Students

A junior college transfer student may be admitted to Athens State College provided he or she has earned (1) a degree from a two-year institution accredited by the Southern Association of Colleges and Schools or other regional accrediting agency, or (2) ninety-five quarter hours of college credit with a 2.0 grade point average on a 4.0 scale.

Early Transfer Request

A junior college transfer student may be considered for admission with eighty-five quarter hours provided he or she has a cumulative 2.0 grade point average on a 4.0 scale and submit an early transfer form with the Admissions Office. Student should also supply unofficial transcripts with early transfer form. (This regulation applies when the student does not plan to receive the Associate degree from the junior or community college and does not need additional courses offered at the junior college level.)

Admission of Technical College/Institute Transfer Students

A student from a regionally accredited technical college/institute may be admitted to Athens State College as a regular degree-seeking student provided he or she has completed a technical program and has received a degree, diploma or certificate. The student must submit an official transcript for review. Credit may be awarded for a maximum of sixty-five quarter hours depending on the particular technical program. Individual related subject courses and grades cannot be directly transcripted as regulated by the State Department of Education and the Commission on Colleges of the Southern Association of Colleges and Schools. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State College degree program but will not affect the total hours residency required for that degree program. Credit earned through this method will not be used in determining the student's cumulative grade point average.

Admission of Four-Year College Transfer Students

A student who has completed a minimum of the freshman and sophomore years at a regionally accredited four-year institution may be admitted to Athens State College as a transfer student. The student may transfer any number of credits to Athens State College; however, a minimum of fifty of the final sixty quarter hours must be completed at Athens State College. A student must have a 2.0 grade point average on a 4.0 scale.

Admission of International Students

To apply for admission to Athens State College, an international student must obtain an I-20 Form from Athens State College and meet the following criteria:

1. Have ninety-six quarter hours or sixty-four semester hours or the equivalent from a regionally accredited institution or the equivalent in a course by course evaluation of foreign educational credentials by World Education Services.
2. Provide official copies of transcripts from all colleges.
3. Transfer clearance form (to be completed only if currently studying in U.S.)
4. Provide a letter stating planned major at Athens State College.
5. Provide an Affidavit of Support.
6. Score a minimum of 500 on the TOEFL score.
7. Provide an official copy of TOEFL score.
8. Provide proof of health insurance.
9. Place on deposit with the Business Office a $1,500 U.S. cashiers check. This money may be used for emergency use only and all requests must be reviewed and approved by the Dean of Student Affairs. The deposit cannot be utilized by the student for tuition, books, room or board. If any portion of the deposit is used during a quarter, it must be replenished before the student enrolls for the following quarter. Such deposit shall be returned to the student upon permanent separation from the college.

Admission of Transient Students

A student wishing to be admitted to Athens State College as a transient student must complete an application for admission and provide the Coordinator of Admissions with (1) a letter of good standing and permission each quarter from the Dean of Academic Affairs of the institution in which he or she is currently enrolled, and (2) approval from said Dean for specific courses to be taken at Athens State College. Upon completion of the course(s), the transient student must make a written request for an official transcript to be mailed to the institution in which he or she is enrolled. An international student must have a transfer clearance sheet from his/her current foreign student advisor.

Admission of Second Degree-Seeking Students

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of fifty quarter hours in residency at Athens State College beyond the conferral date of the first degree.

Admission of Former Students in Good Standing

A student who has previously attended Athens State College and is currently in good standing, including students returning after an absence of only one quarter, can be re-admitted automatically. The returning student may complete a reapplication form to update personal information, but no additional application fee will be charged.

If the returning student plans to seek a degree from Athens State College and has attended another college or university during his or her absence from the college, official transcripts must be mailed directly from the college or university attended to the Admissions Office, Athens State College, Student Center, 300 North Beaty Street, Athens, Alabama 35611.

Admission of Students on Probationary Status From Other Institutions

A student on probationary status from another institution who wishes to attend Athens State College must provide official transcripts from all colleges or universities previously attended. These transcripts will be reviewed to determine admissibility.

A student who has been suspended indefinitely from another institution during the current academic year will not be permitted to enter Athens State College. However, the student who has been out of school for more than one year after being suspended indefinitely by another institution will be considered for admissibility.

Admission of Non-Degree Seeking Students

A student who has not completed the required number of credit hours to be accepted as a regular degree-seeking student and who wishes to pursue a limited objective may be admitted to Athens State College as a non-degree-seeking student. Non-degree seeking students should not circumvent attendance at the community/junior/technical college. Such a student should report directly to the Office of Admissions for permission to enter. Records are kept of the work completed and credits are transferable. The non-degree seeking student is restricted to a maximum of ten quarter hours per term.

Auditing - Any individual may elect to attend classes at Athens State College on an audit basis, provided he or she has completed an application for admission. Credit is not awarded for audited classes. Audited courses will be allowed on a space available basis. No change from audit to credit is allowed (see page 21). A student who is currently attending high school or who has not earned a high school diploma or equivalent may only audit courses at Athens State College.

Personal Enrichment - A person who wishes to attend Athens State College for personal enrichment or self-improvement will be limited to ten quarter hours per term with credit recorded as for a regular degree-seeking student. This student will be admitted as a special non-degree seeking student and is not required to furnish official transcripts from other colleges or universities previously attended.

Teacher Certification - A student holding a degree from another institution and taking courses at Athens State College for teacher certification purposes is required to submit one copy of all official transcripts from each institution previously attended. These transcripts are not evaluated or recorded but are used in determining teacher certification requirements. (See Teacher Education Program page 38.)

APPLICATION INFORMATION

Application

Each student applying for admission to Athens State College must complete an application for admission and return the application to the Admissions Office accompanied by a required application fee of $30.00. This fee is not applicable to tuition.

Transcripts

The student must provide official transcripts from each college previously attended. The applicant must request that these transcripts be sent directly to Athens State College, Attention: Admissions Office, Student Center, 300 North Beaty Street, Athens, Alabama 35611. A student completing a program at another institution and seeking enrollment at Athens State College without sufficient time to arrange for official transcripts prior to registration may be admitted **conditionally** with all privileges of a regular student for the quarter. A student admitted under this provision must see that all official transcripts are received by the Office of Admissions **prior to the end of the quarter in which he or she first enrolled**. Failure to do so may preclude enrollment until all transcripts are received by the Office of Admissions.

Collegiate Assessment of Academic Proficiency (CAAP)

The CAAP examination (Reading, Math and Writing) is administered to all first time enrollees during their first quarter of enrollment. Students who have taken this examination at other institutions may submit scores and be exempt from testing at Athens State College. Students are required to take these examinations as part of the assessment program. (Exceptions: Education majors, special non-degree seeking students and students with four-year degrees.) This assessment provides the institution information on the entering student body as well as provides to each student a "bench-mark" on current levels of understanding in these three areas. The scores may assist students in determining course selection or in seeking additional assistance in the Writing and Math Centers.

Official Student Records

In accordance with Public Law 93-380, the Family Educational Rights and Privacy Act of 1974, each student and former student of Athens State College has the right to inspect his or her official educational records in the Records Office. This right of inspection does not apply to any confidential information submitted to this office prior to January 1, 1975, nor to access by students or former students to financial records of their parents. Under this act, the college may not release information concerning a student without the student's written permission. The Family Education Rights and Privacy Act in its entirety is available for student reference in the Records Office. Each student should become aware of the provisions of this act.

Transfer of Academic Credit

Athens State College operates on the quarter system. Credits earned in semester hours will be evaluated on the basis that one semester hour equals one and one-half quarter hours. (Example: a three semester hour course would equal 4.5 quarter hours.) A student's overall grade point average must be a 2.0 or higher (transfer and Athens State College credits). (See Transfer Credit Restrictions on page 21.)

FINANCIAL INFORMATION

Athens State College is committed to providing a quality educational program at the lowest possible cost. Therefore, Athens State is especially committed to a professional and business-like approach in the management of its financial resources.

TUITION

Tuition and fees are subject to change at any point of time, subject to approval of the Alabama State Board of Education.

Alabama Residents

The Alabama resident tuition is thirty-nine dollars ($39.00) per quarter hour. Payment due dates are posted in the schedule. No student will be allowed to defer payments.

Out-of-State and Foreign Students

The out-of-state residents or non-U.S. citizens who do not meet Alabama residence requirements tuition is seventy eight dollars ($78.00) per quarter hour.

HOUSING

Dormitory rooms are available through the Housing Office. The cost for a double occupancy room is two-hundred and seventy-five dollars ($275.00) per quarter. A limited number of single occupancy rooms are available at a cost of three hundred and twenty-five dollars ($325.00) per quarter. See schedule for payment due date. A one time only fifty-dollar ($50.00) damage deposit is required from each student, payable upon acceptance of the student as a dormitory resident. Checks are to be made payable to Athens State College.

SCHEDULE OF FEES

Application Fee	$ 30.00
Art Fee	$ 35.00
Teaching Internship	$ 75.00
Music (piano, organ, voice) one l/2-hour lesson	$ 52.25
Lab Fee (as specified per course)	$ 35.00
Off Campus Course Fee (excluding Redstone) (per course)	$ 25.00
Late Registration Fee	$ 10.00
Drop or Add per course change	$ 5.00
Transcript of Grades (after first request)	$ 3.00
Graduation Fee	$ 50.00
Auditing Fee per hour	$ 19.50
Key Deposit	$ 2.00
Returned Check Fee	$ 15.00
*Parking Decal	$ 10.00
I.D. Card (picture)	$ 1.00
Dormitory Deposit	$ 50.00
International Student Deposit	$ 1,500.00
Diploma Reorder	$ 12.50
Replacement Diploma	$ 25.00
Facilities Fee ($15.00 Maximum)	$1.00/Qtr. Hr.

*See Parking regulations for additional information.

REFUNDS

The current Refund Policy is as follows. The current quarterly schedule should be consulted for any changes.

The Refund Policy 803.02 stated below became effective 9-26-96. It is not an institutional policy but is mandated by the Alabama Department of Postsecondary Education for all colleges under its control. Athens State College is under the control of Alabama Department of Postsecondary Education and must comply with this policy.

1.1 Refund for Complete Withdrawal

A student who officially or unofficially withdraws from all classes before the first day of class will be refunded the total tuition and other institutional charges.

A student who officially or unofficially withdraws completely on or after the first day of class but prior to the end of the third week of class will be refunded according to the withdrawal date as follows:

75% of tuition and other institutional charges withdrawal **during first week**

50% of tuition and other institutional charges withdrawal **during second week**

25% of tuition and other institutional charges withdrawal **during third week**

NO REFUND withdrawal **after end of third week**

1.2 Administrative Fee

An administrative fee not to exceed 5% of tuition and other institutional charges or $100, whichever is smaller, shall be assessed for each withdrawal within the period beginning the first day of class and ending at the end of the third week of class.

1.3 Books and Supplies

A student who withdraws and who has purchased returnable books, and/or supplies from the college and returns the items in new/unused condition by the end of the third week of the quarter will be refunded the full purchase price. Books and/or supplies returned in used condition by the end of the third week of the quarter will be refunded 50% of purchase price.

2.1 Refund for Partial Withdrawal

Students who do not completely withdraw from the college but drop a class during the regular drop/add period will be refunded the difference in tuition paid and the tuition rate applicable to the reduced number of hours, including fees appropriate to the classes dropped. There is no refund due to a student who partially withdraws after the official drop/add period.

3.1 Refund in Compliance With Federal Regulations

All colleges shall comply with federal regulations relative to refund of tuition and other institutional charges for first time, first-term Title IV recipients.

4.1 Refund for Alabama National Guard and Reservists Called to Active Duty

Students who are active members of the Alabama National Guard or reservists or who are active duty military who are called to active duty in the time of national crisis shall receive a full tuition refund at the time of withdrawal, if such sutdent is unable to complete the term due to active duty orders or assignment to another location.

Refunds are issued the 6th week of class. Students receiving 100% tuition refund will be charged a $5.00 drop fee per course. Lab fees are non-refundable.

Weekend, short-terms and special one week classes will receive a 100% refund if dropped prior to the first day of the start of the class.

Any first time Title IV Federal Aid Recipient (Pell, SEOG, or loan student) withdrawing from all classes prior to the end of the sixth week of classes will be subject to the Federal Pro Rata Refund Policy.

Dormitory room costs are prorated weekly. Any part of a week shall constitute a full week. In unusual circumstances such as illness or official government orders, **students may petition the Dean of Student Affairs for special consideration**.

Examples of refunds are available upon written request to the Student Financial Services Office.

RETURNED CHECKS

Students whose checks fail to clear their bank accounts, for whatever reason, including "Insufficient Funds," "Account Closed" or "Payment Stopped," must pay a $15.00 returned check fee. If the check in question is for payment of tuition, an additional $10.00 late fee will be charged. All checks not cleared are forwarded to the Limestone County District Attorney for collection.

GRADES/TRANSCRIPTS WITHHELD

A student failing to meet his or her financial obligations to the college may have his or her quarterly grade report, transcript and all other academic transactions withheld until such obligations are cleared through the Business Office. Such obligations include unpaid fees, overdue library books, damaged or unreturned college equipment, dormitory damage, unpaid student loans, and parking fees. A student may be withdrawn from classes and not permitted to register until financial obligations have been cleared.

FINANCIAL AID

The Student Financial Services Office of Athens State College is located in the Sandridge Student Center, top floor, Room 210. Phone: 1-800-522-0272, ext. 170, or 233-8170, or 233-8122. FAX: 233-8128.

The Student Financial Services Office has two major objectives:

1. To supplement the efforts of the student and parents of the student in meeting educational costs.
2. To provide financial aid to students who would be unable to attend this institution without such assistance.

Athens State College provides this aid through various federal, state, and private sources.

HOW TO APPLY

1. THE FIRST STEP IN APPLYING FOR AID AT ATHENS STATE is to submit the Free Application for Federal Student Aid to one of the approved processors on the application form.. The deadline for applications to the Federal Processor is June 30, 1997. **THE STUDENT MUST REAPPLY FOR AID EACH YEAR.** This application and resulting analysis is the basis for all federally funded student aid programs and for all need-based programs at Athens State College. Each applicant will receive a Student Aid Report (SAR) from the processor. Some applicants are selected by the Federal government for a process of verification. Verification requires completion of an additional worksheet and supporting documentation.

 Students may apply electronically for aid at no cost by one of the following methods:

 U.S. Department of Education Application WebSite Internet address: www.ed.gov/offices/ope/express.htnel

 Order an application diskette from the U.S. Department of Education 1-800-801-0576 or

 at an Education Opportunity Center - contact the Financial Aid Office for a location near you.

2. Each mid-year transfer student must submit to the Student Financial Services Office a Student Financial Aid Transcript (FAT) from each previous institution attended, whether the student received aid at prior institutions or not. This transcript must be requested by the student from the prior institution's Financial Aid Office. Aid will not be issued to the student until this transcript is on file in the Student Financial Services Office.

A Cost of Education will be determined for each student based on full-time tuition and fees, room and board estimates, books, supplies, transportation and miscellaneous expenses, dependent care expenses, and disability expenses related to study not covered by an assisting agency. Cost of Education budgets are available in the Student Financial Services Office.

In determining aid the College will deduct the expected Family Contribution as indicated on the SAR from the Cost of Education. After the need has been computed, the Pell Grant award, if any, will be calculated to determine any remaining need the student may have. Any other resources available to the Student such as VA benefits, Vocational Rehabilitation Benefits, and private Scholarship Funds will also be considered in determining remaining need. Remaining need may be met in a variety of ways. The Student Financial Services Office will determine the precise method on the basis of available funds of the school and the student. Some of the funds generally available are SEOG, Alabama Assistance Grants, College Work Study, Scholarships and Loan programs. (See specific guidelines in the Aid Programs Section.)

Pell grant payments will be paid quarterly to eligible students who have a completed Financial Aid File. Aid approved by the Student Financial Services Office will automatically be applied on the student schedule during the registration process. Any funds remaining for a quarter will be paid directly to the student by check. The Business Office will issue and mail checks by the end of the first week of classes each quarter. Subsequent payments will be made in the second and final weeks each quarter.

REFUND POLICY FOR STUDENTS RECEIVING FEDERAL TITLE IV AID

The following Refund policies are required by federal regulation for students with Title IV aid withdrawing from all classes at Athens State College and should not be confused with the school's refund policy for changes in enrollment status.

As required by Federal Regulation, as of July 1, 1993 all students with Title IV Aid due refunds from a total withdrawal from school will have the refund credited to Title IV programs in the following order:

1. Outstanding Balances on Federal Direct Student Loan Program.
2. Federal Pell Grant Program
3. Federal SEOG Program
4. Any Other Title IV Programs
5. Student

ANY FIRST TIME STUDENT AT ATHENS STATE COLLEGE will be subject to a pro rata refund as required by final Federal Regulations as of November 29, 1994. The Student Financial Services Office can assist any students with questions regarding these refund policies.

SATISFACTORY ACADEMIC PROGRESS

Financial Aid will be suspended after three quarters of attempted coursework unless the student meets the following conditions of Satisfactory Academic Progress:

1. Maintains a 2.0 GPA or better;
2. Has passed 60% of all attempted coursework with an "A," "B," "C,", "D," or "S;"
3. Has been on academic probation for no more than one quarter;
4. Is progressing through the required coursework for degree completion at a full-time equivalency of twelve hours per quarter for eight quarters. [Maximum time frame twelve quarters or 144 cumulative hours; terms of enrollment need not be consecutive.]

Students who withdraw from more than 40% of the coursework for which they have received federal aid will have all financial aid suspended until the withdrawal ratio has improved or appeal has been approved.

Appeals Process:

Students may appeal financial aid suspension in writing to the Director of Student Financial Services. The appeal must clearly state the reasons the student did not achieve the requirements AND the reasons why the aid should not be terminated. Students may appeal the decision of the Director of Student Financial Services, in writing, to the Financial Aid Committee. The Committee will review the appeal and the student will be notified, in writing, when a decision has been reached.

Students who lose financial aid must apply for reinstatement of aid when the deficiency has been cleared by documenting to the Student Financial Services Office that all requirements have been met.

FINANCIAL AID PROGRAMS

FEDERAL PROGRAMS

Federal Pell Grant Program

This program is designed to provide financial assistance to persons at the undergraduate level who need funds to attend a post high school educational institution. The actual size of a grant award will depend upon the family's financial situation, the amount of funds actually available for the program each year and the cost of education. For the Pell Grant program, an undergraduate is one who has not earned a bachelor's or first professional degree. Pell Grants provide a "foundation" of financial aid to which aid from other Federal and non-Federal sources may be added. All paperwork must be submitted to the Student Financial Services Office during the period of enrollment for payment. The final academic year deadline is the third week of the summer quarter.

Federal Supplemental Educational Opportunity Grant

This program has the single purpose of making a college education available to qualified applicants who demonstrate "exceptional financial need." In determining the priority order in which students will be awarded SEOG funds in any given year, Federal regulations require the school to give first consideration to those students with exceptional financial need demonstrated by the Pell Grant recipients with the lowest Expected Family Contribution in that year. This program is for students who have not earned a bachelor's degree or first professional degree.

Federal Work-Study Program

This program is designed to help students pay for part or all of their educational expenses by working part-time on campus, in coordination with their class schedules. This program is available on the basis of need as defined by the student's Pell Grant information. All requirements and conditions for employment under the College Work-Study Program are available in the Student Financial Services Office.

Federal Direct Loan Program

Athens State College participates in:

Federal Direct Subsidized Loans—provides students the opportunity to borrow funds for education costs at low interest cost. For students with a defined need, the Federal Government subsidizes (pays) the interest during the certain specified periods.

Federal Direct Unsubsidized Loans—for students with no defined need the Federal Government provides loan funds with low interest rates, but does not subsidize the interest.

Athens State College does not certify loans to or for students on academic probation or for students failing to meet satisfactory academic progress standards as outlined on the preceding page.

STATE PROGRAMS

Alabama Assistance Grant Program

This program is a State/Federal Aid Program designed to provide assistance to residents of the State of Alabama. The program is need based and offers awards based on the Pell need analysis to students with demonstrated "exceptional need."

SCHOLARSHIPS

INSTITUTIONAL SCHOLARSHIP PROGRAM

I. **Academic Scholarships**-Awarded on outstanding academic achievement, 3.5 grade point average minimum required. Deadline March 27 for awards in the following academic year. Approximately 30 new awards for each academic year.

II. **Student Activities Leadership Scholarships**—Demonstrated leadership qualities through clubs and organizations at transfer institution, grade point average minimum of 3.0; must participate in activities of Athens State College. Deadline March 27. See Student Activities Office for application.

III. **The Dottie and J.J. Donahue SGA President's Scholarship**—Awarded to the president of SGA, $100 per quarter for Fall, Winter and Spring quarters.

IV. **Athletic Scholarships**—Scholarships may be offered in the areas of men's basketball and women's softball to students who demonstrate outstanding athletic ability at a junior or community college. For further information on men's basketball contact Coach Harold Murrell. For information on women's softball contact Coach Larry Keenum.

V. **Cheerleader Scholarships**—Full tuition and dormitory scholarships are awarded to all Athens State College cheerleaders and mascot. The recipient must have a grade point average of 2.5 and maintain a 2.0 average. Scholarship is renewable each quarter based upon performance and adherence to rules set forth by the Coordinator of Student Activities.

VI. **The Athenian Scholarship**—Full tuition for four quarters is awarded to the editor of the college newspaper. This scholarship is contingent upon the student's satisfactorily fulfilling the requirements of the position and maintaining a 3.0 GPA. Partial scholarships are available for three assistant editors, contingent upon the student fulfilling the requirements of the position and maintaining a 3.0 Grade Point Average. Applicants must contact the Coordinator of Student Activities.

ALUMNI SCHOLARSHIPS

The Alumni Association provides the following scholarships:

Alumni Varsity Tag Scholarship
Mary Norman Moore McCoy Scholarship

DEADLINE: MARCH 27

For more information on these scholarships contact the Alumni Office in Founders Hall (233-8275).

ATHENS STATE COLLEGE FOUNDATION SCHOLARSHIP PROGRAMS

The Athens State College Foundation has numerous scholarships available. Applications are available in the Foundation Office and the Financial Aid Office on or after January 15 of each year. Submission deadline is March 27 each year. For more information on these scholarships please contact the Foundation Office in Brown Hall (233-8215).

Allfrey Memorial Scholarship
AmSouth Scholarship
J. E. Beasley, Jr. Memorial Scholarship
Edward Burgreen Memorial Scholarship
John C. Maund Memorial Scholarship
Alabama Boys & Girls Ranch Scholarship
(donated by Mayme Pitts)
George B. & Ruby Murphy Memorial Scholarship
Herman Griffin Memorial Scholarship
Hobbs/Horton Memorial Scholarship
TVOTFC - T. A. Hudson Memorial Scholarship
TVOTEC - Jodie Hall Memorial Scholarship
TVOTEC - Joe Gambill Memorial Scholarship
Steelcase Scholarships
A. E. Middlebrooks Memorial Scholarship
Daniel Hightower Memorial Scholarship
Martin W. Evans Scholarship
Fiber-Lite Scholarship
National Management Association Scholarship
Harry Miller Memorial Scholarship
Group DEKKO Scholarship
Compass Bank Scholarship
Dick Chittam Realty Scholarship
Harold Smith Memorial Scholarship
John D. and Michael Maund Scholarship
James and Melba Chasteen Scholarship
Mary Corum Endowed Scholarship

STUDENT RESPONSIBILITIES:

It is the responsibility of the student to:

1. Review and consider all information about a school's program BEFORE enrolling.
2. Pay special attention to the application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay or prevent receiving aid.
3. Know all the deadlines for applying or reapplying for aid and meet them.
4. Provide all documentation, corrections, and/or new information requested by either the Student Financial Services Office or the agency to which the application was submitted.
5. Notify the school of any information that has changed since application was made for financial aid.
6. Read, understand and keep copies of all forms requiring signature.
7. Repay any student loans he/she has. When a student signs a promissory note, he/she is agreeing to repay the loan.
8. Attend an entrance and exit interview at the school if you have a Federal Direct Student Loan.
9. Notify the school of any change in name, address, or attendance status. If a student has a loan, the student must also notify the lender of any changes.
10. If employed for a Federal Work-Study job, satisfactorily perform the work agreed upon.
11. Understand the school's refund policy as outlined in this publication.

STUDENT RIGHTS:

The student has the right to ask a school—

1. The names of ithe school's accrediting and licensing organizations.
2. For a copy of the documents describing the institution's accreditation or licensing.
3. About its programs, its instructional, laboratory, and other physical facilities, and its faculty.
4. What the cost of attending is, and what its policy is on refunds to students who drop out.
5. What financial assistance is available, including information on all Federal, state, local, private and institutional financial aid programs.
6. Who its financial aid personnel are, where they're located, and how to contact them for information.
7. What the procedures and deadlines are for submitting applications for each available financial aid program.
8. How it selects financial aid recipients.
9. How it determines financial need, including cost of education and resources available.
10. How much of one's need, as determined by the school, had been met.
11. How and when one receives financial aid.
12. To explain each type and amount of assistance in the financial aid package.
13. What the interest rate is on any student loan, the total amount to be repaid, when length of time for repayment and when repayment must start, and what cancellation or deferment provisions apply.
14. If offered a federal work-study job—what kind of job it is, what hours are to be worked, what the duties will be, what the rate of pay will be, and how and when wages will be paid.
15. To reconsider an aid package, if the student believes a mistake has been made, or if enrollment or financial circumstances have changed.
16. How the school determines whether a student is making satisfactory progress, and outcomes of unsatisfactory progress.
17. What special facilities and services are available to persons with disabilities.



STUDENT AFFAIRS

Athens State College students are strongly encouraged to participate in campus extracurricular activities and to utilize the services provided by the College. Additional detailed information concerning these activities and services, the rules and regulations relative to student conduct, and student rights and responsibilities is found in the Student Handbook.

Student Government Association

All members of the student body belong to the Student Government Association. Officers and organizational representatives are elected annually. The college organizational structure provides for and encourages democratic student involvement in the affairs of the College.

The Student Government Association meets at regular intervals and the meetings are open to all students who wish to observe the proceedings. Every student should feel at liberty to make suggestions to the Student Government Association, to any committee, or to any officer of the college administration.

CLUBS AND ORGANIZATIONS

African-American History Association

The African-American History Association is an organization to increase awareness of African-American contributions to the development of our country by providing the Athens State College community with a social, moral, intellectual and cultural agenda of African-American history and life. The organization was chartered in 1984, as the Athens State Black History Association, and has been a pioneer in the Athens and Limestone County area in observing the National program theme and practices. Membership is open to all administrators, faculty, staff and students of Athens State College. For more information, please contact Ms. Margaret Oliver, Advisor, at extension 129.

American Production and Inventory Control Society

APICS, the educational society for resource management, is an international organization offering a full range of programs and materials on the latest business management concepts and techniques. APICS is open to all students. For information, contact Dr. Wayne McCain, Advisor, at extension 501.

The Athenian

The Athenian is the campus newspaper. There are scholarships available for the assistants and editor positions. Please feel free to submit articles to the paper for publication. Check the **Athenian** Office for deadline dates and office hours.

Association of Justice Studies Club

Lambda Alpha Epsilon is a student organization for justice studies majors and minors. For information contact Dr. Tim Jones, Advisor, at extension 293.

BACCHUS

Boost Alcohol Consciousness Concerning the Health of University Students (BACCHUS) is open to all students, faculty and staff. BACCHUS is a national student organization with more than 500 affiliated chapters at institutions of higher education across North America. Through education and activities designed to increase awareness of the changing alcohol issue, BACCHUS focuses on the development and promotion of positive lifestyles and decision making skills. For further information contact Nikki Eddy, President (205/233-8125), or Dr. Nancy Beasley, Advisor (205/233-8108).

Beta Mu Psi

An international honor society for students enrolled in business degree programs. Mr. William Wilkes serves as advisor.

Biology Club

The purpose of this organization is to advance academic and research interest in biological sciences and to enrich the biology program at Athens State College. Students developing a major or minor in biology are eligible for membership.

Campus Recreation and Intramurals

This area is open to all students, faculty, and staff. This organization offers a variety of activities to meet the needs and interests of these groups. If you are interested in participating in these activities, or if you would like to learn more about what ASC intramurals has to offer, please contact Ms. Judy Stinnett at extension 277.

Centurions

The Centurions Club provides educational and social opportunities and is open to all students, faculty, and staff. This organization assists persons with disabilities to gain access in every way and to the extent permitted by law to all facilities and opportunities at Athens State College. Please contact Ann Tidwell, Advisor, extension 180, for further information.

Delta Mu Delta

Delta Mu Delta is an honor society for accounting, management, human resources management, and management of technology majors. Please contact Dr. Linda Shonesy, faculty advisor, at extension 174 for more information.

Fellowship of Christian Students

This organization meets each Wednesday evening at 8:00 p.m. in the lower lobby of the Student Center. For more information contact advisor, Rodney Ferguson at 19569 Elkton Road, Athens, Alabama 35614 or call (205) 230-3102.

Institute for Management Accountants

Student membership in the Institute of Management Accountants has a three-fold purpose:

1. To introduce management accounting to students planning careers in business,
2. To strengthen the knowledge and commitment of those already on the way to management accounting careers, and
3. To demonstrate how IMA members work together to improve the science of management accounting.

IMA membership provides opportunities for students to associate with practicing management accountants; to see how they live, work, and apply their knowledge; and to learn that professionals are seriously devoted to their field and to high ethical standards.

Requirements for Admission:
To qualify for student membership, one must be a regularly enrolled business student carrying at least 10 quarter hours of credit. The Association requires an application in writing, on a prescribed form, endorsed by a faculty member or the Registrar. Applications may be obtained at the School of Business Office located in Founders Hall.

Kappa Delta Pi
Kappa Delta Pi is an international education honor society. Students are eligible for consideration when they have accumulated enough credit hours to reach senior status. Students are selected by a committee which evaluates them for outstanding academic achievement, scholarly ideals, and professional promise. Dr. Joe Brasher, extension 260, is the advisor and may be contacted for further information.

MACS
The mathematics and computer science (MACS) club is designed to enhance the undergraduate program through visiting lectures, field trips, and student recognition. Open to all students majoring or minoring in mathematics or computer science. For further information contact Ms. Jennie Legge, Advisor (205) 233-8139.

Ministerial Association
Students entering church-related work are eligible for membership in this organization.

Phi Alpha Theta
Phi Alpha Theta is an international honor society in history. Membership is open to students, professors and alumni who have achieved excellence in history. The Alpha Beta Lambda chapter was established at Athens State College in 1984. For more information about this organization please contact Dr. Douglas Wertsch, Advisor, at 232-8272.

Physical Education Club
The purpose of this organization is to develop leadership, scholarship and professional awareness in students majoring or minoring in Physical Education at Athens State College. Dr. Angie Nazaretian, advisor, may be contacted at extensions 275 or 278.

Pi Tau Chi
A national honorary religious society. Membership is by invitation for outstanding service in religious activities. Requirements for membership are 2.0 GPA, leadership in home, church or community, and participation in activities on campus. For further information contact Margaret M. Oliver, at extension 129.

Pre-Law Society
The Pre-Law Society is a club open to all students who have an interest in law or law school. The purpose of the organization is to inform students of opportunities available in the field of law and to help prepare students to enter law school. For more information please contact Dr. Mark Anderson, Advisor, by campus mail or at extension 148.

Psi Chi
Psi Chi is a national psychology honor society. Membership is open to students, professors, and alumni who have achieved excellence in psychology. Psi Chi was established at Athens State College in 1985. Dr. Frazier Douglass, advisor, may be contacted at extension 230.

Sigma Tau Delta
The English honor society is a member of the National Association of College Honor Societies and is open to English majors and minors and to published writers. The organization sponsors an annual campus-wide writing contest. The Kappa Zeta chapter was founded here in 1954. Campus sponsors are Dr. Penne Laubenthal (extension 299), or Ms. Jenita Smith (extension 502).

The Society of Physics Students (SPS)
The Society of Physics Students is a professional physics association explicitly designed for students. Membership is open to any students interested in physics. The Society promotes interest in physics through lectures, discussions, and field trips

SOCIAL FRATERNITY

One national women's social fraternity, **Phi Mu**, has a chapter on the Athens State College campus. Contact the Office of Student Activities (extension 227) for further information.

PUBLICATIONS

The Athenian, the college newspaper, provides an opportunity for students to develop in the field of journalism and to express themselves on campus issues.

The Gyre is an annual student publication which gives the student an outlet for creative writing. All stories and poems are student written.

The Athens State College Alumni Bulletin keeps the active alumni, their families and friends informed about the institution and the association.

ATHLETICS, INTRAMURALS, AND CAMPUS RECREATION

Intercollegiate Athletics

Athens State College is a member of the National Association of Intercollegiate Athletics,, and plays in the Southeast Region as an independent in Women's fastpitch softball and men's basketball.

Intramural Program

The intramural program is designed to provide athletic competition among Athens State College students, faculty, and staff. This program includes football, bowling, volleyball, basketball, ping pong, badminton, tennis, softball and pickle ball.

Campus Recreation Program

On-campus recreational facilities are available for use by students, their immediate families; also, citizens of the Athens community may purchase a membership and participate in the program. The facilities available include the gymnasium, swimming pool, and weight rooms.

COUNSELING AND CAREER SERVICES

Counseling and Career Services is located in Suite 230, second floor of the Sandridge Student Center and includes: Counseling, Career Services, Cooperative Education, Services for Students with Disabilities, Admissions Counseling/Recruitment, International Student Advisement, Testing, and Veterans' Advisement. Appointments may be made by calling 233-8124, 233-8180, or 233-8285 between 8:00 a.m. and 4:30 p.m., Monday through Friday; other hours by appointment only.

Counseling

The goal of counseling is to assist students, as unique individuals, to cope with personal, social, career and educational issues as they pursue their academic goal. Counseling is provided through one-on-one counseling interviews, using assessment instruments, when appropriate, to promote self understanding and self management. All counseling services are confidential.

Career Counseling is provided to assist students with the following: deciding upon and selecting a major field of study; measuring interests, abilities and values through assessment instruments in relation to selecting a career goal; and, providing job search information and resources related to making the transition from college to full-time professional employment. Resources available include a career library, graduate school information, and the State Occupational Information Coordinating Committee (SOICC) database.

Career Services

Career Services includes an information center which emphasizes job search skill development and promotes employment opportunities for currently enrolled students and alumni. It is the aim of the Career Services Office to assist the student in making sound career choices and at the same time provide employers with well-qualified employees. Career Services is intended to support the student's job search. Career Services provides information on employers and employment opportunities, resource materials, individual appointments, interview opportunities and seminars on job search topics and techniques. Career Services does not function as a placement agency, and cannot guarantee employment. The job search is ultimately the candidate's responsibility. Students are encouraged to use the Career Services available to maximize employment opportunities upon graduation.

*Job Location and Development is a program referring currently enrolled students to part-time job positions available in North Alabama. Four Job Bulletin Boards, which are updated weekly, are located outside the Career Services Office near the Bear Cage (second floor of the Student Center), in Chasteen Hall, on the ground floor of Founder's Hall near the elevator, and on the first floor of Waters Hall.

*Professional Referral Services will establish a credentials file for each graduate, and refer job candidates to employers who make requests for qualified candidates. A credentials file consists of a registration form, an authorization form and five copies of a resume. Education majors are additionally required to submit a transcript and three recommendations. Students are encouraged to register in Career Services at least nine months before graduation. A quarterly newsletter is sent to all registrants to keep them informed of career opportunities and resources.

*Job Search Assistance is also available on an individual basis by appointment. Seminars on resume writing, interview skills, and job search skill development are offered quarterly.

*Information on graduate school programs is available through the Career Services Office. A graduate school information day is scheduled each fall.

***Students and alumni are invited to participate in the North Alabama College Placement Employment Day** scheduled in Huntsville each February. This event began in 1985 and annually attracts over 70 employers seeking liberal arts, science, computer science, behavioral science, business and education graduates.

Cooperative Education

The Cooperative Education Program is designed to give students the opportunity to integrate their classroom study with practical work experience in their major field. Both alternating and parallel plans are available.

A combination of Cooperative Education credit hours earned in CP 301-306, CP 401-404, or CP 410A-L will not exceed twelve quarter hours of elective credit toward graduation (See course descriptions on page 127.)

Parallel/Alternating/Special Arranged Plans

The Parallel Plan is a series of courses in which students are engaged in a work situation directly related to their academic major and college courses concurrently. The parallel plan requires that the student work part-time while attending college classes full time. (Two quarter hours of elective credit are earned for the parallel plan.)

The Alternating Plan is a series of courses in which students are engaged in full-time study for one quarter, then switch to full-time employment directly related to their academic major for the following quarter. (Three quarter hours of elective credit are earned for the alternating plan.)

The Special Arranged Plan allows the student who does not qualify under the guidelines for Parallel/Alternating Plans to work and attend classes in the cooperative education setting and is approved on a quarter-by-quarter basis. (One quarter hour of elective credit is earned for the special arranged plan.)

Eligibility: All students who have chosen a major field of study and completed at least ten quarter hours are eligible provided they meet the following criteria:

1. Student must be in good standing and must have and maintain an overall GPA of 2.5.
2. Student must intend to fulfill the requirements of the Co-Op Program and be a prospective candidate for graduation at Athens State College.

Application: Students should apply as soon as they are considered as a degree-seeking student by the college and enrolled in a minimum of ten quarter hours.

Procedure:

1. Complete a "Cooperative Education Application"
2. Provide a copy of your latest college transcript and a current resume.
3. Arrange for a preliminary interview with a member of the Cooperative Education staff to discuss career goals and preferred work assignments.
4. The Cooperative Education Office will nominate qualified students to employers based on employer requests and requirements.

Grading: A grade of pass or fail will be based on the employer's evaluation of the student's acquired knowledge and skills, the student's work report evaluation, and the quality of term paper(s) submitted by the student.

International Students

The International Student Advisor's Office assists the international student in transferring to Athens State College. Services include interpretation of governmental regulations and institutional requirements.

Services for Students With Disabilities

Athens State College fully supports and complies with the Americans With Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The staff and faculty endeavor to provide students an opportunity for success with as few deterrents as possible, strive to create a welcoming environment, and will work in good faith to meet the needs of all populations. Counseling and Career Services provides individual assistance for students with disabilities: assistance with registration, counseling, auxiliary equipment, assistance locating note takers and readers, classroom accommodations, and liaison with faculty, Admissions, Financial Aid, Housing, and community resources.

Students with disabilities are encouraged to visit campus prior to enrollment to provide written documentation and to discuss any needs which they may have. Appointments may be made by calling 233-8285; TDD: 205-233-1127. The office is located in Room 230 on the second floor of the Sandridge Student Center and is open Monday-Friday, 8:00 a.m. to 4:30 p.m.

The ADA/504 Coordinator is Maureen J. Chemsak, Director of Counseling and Career Services.

Admissions Counseling

Entering students may obtain advisement through an admissions counselor. The counselor can provide information to assist students in understanding registration procedures, academic requirements, degree programs, and to become familiar with the campus and its facilities. Appointments are recommended (233-8124).

Testing

Athens State College offers certain testing programs for the convenience of Athens State College students and the community. Information and registration packets pertaining to these programs are available in the Special Services Office located in Counseling and Career Services, Suite 230, second floor of the Sandridge Student Center. [See also Testing/Assessment, p. 25.]

Testing services offered by Athens State College include:

1. PRAXIS (Registration Bulletin includes National Teacher's Examination information)
2. Basic Skills Test (BST)
3. Collegiate Assessment of Academic Proficiency (CAAP)
4. College Level Examinations Program (CLEP)
5. Miller Analogies Test (MAT)
6. Defense Activity for Non-Traditional Educational Support (DANTES)
7. Correspondence testing
8. Information and registration bulletins are available for GRE, GMAT, ACT, LSAT & MCAT.

Veterans' Advisement

The Veterans Educational Assistance Program at Athens State College is based on the rules, regulations, policies and procedures of the Veterans Administration and as such is subject to change without notice. Current information concerning pay scales and other educational benefits is available in the Office of Veterans Affairs, second floor of the Sandridge Student Center, 233-8124.

Veterans Educational Assistance Programs:

- **Montgomery G.I. Bill - Active Duty Educational Assistance Program (Chapter 30 of Title 38, U. S. Code).**

- **Vietnam Era Veterans' Educational Assistance Program (Chapter 34 of Title 38, U. S. Code).**

- **Montgomery G.I. Bill - Selected Reserve Educational Assistance Program** (Chapter 1606, formerly Chapter 106, of Title 10, U. S. Code).

- **Post-Vietnam Veterans (VEAP) Educational Assistance Program (Chapter 32 of Title 38, U. S. Code).**

- **Vocational Rehabilitation - Chapter 31**

 This program provides educational assistance to disabled veterans who are in need of vocational rehabilitation. To be eligible a veteran must have a service-connected disability entitling him/her to these benefits. An award authorization must be received by the Office of Veterans Affairs before benefits can be used.

- **Survivors' and Dependents' Educational Assistance Program (Chapter 35 of Title 38, U. S. Code).**

Paperwork for state benefits (tuition, fees, books) should be processed through the Office of Student Financial Services. Paperwork for federal benefits (monthly checks) should be processed through the Office of Veterans Affairs.

Selection of Program

In consultation with an admissions counselor or an academic advisor, each veteran student must select and plan a program in accordance with the Athens State College catalog. Assistance in determining a course of study or a change of program will be furnished by the Office of Veterans Affairs with concurrence of an academic advisor.

Course Load

A full-time course load for a student receiving veterans' benefits is twelve quarter hours or more; a three-quarter time load is nine quarter hours, a one-half time load is six quarter hours. Less than six quarter hours is considered less than one-half time.

Current VA regulations apply for all short term courses which do not satisfy the minimum amount of contact hours per week, regardless of the amount of credit hours earned for such courses. For complete information regarding "short term courses" contact the Office of Veterans Affairs.

Repeated Courses for Veterans Receiving Educational Benefits

If a veteran fails a required course, he/she may repeat that course with pay. However, he/she cannot repeat a course just to improve a grade and receive payment through the Veterans Administration. (See also Repeated Courses, page 32, for Athens State College policies.)

Standards of Progress

The following standards must be met in order for veterans or other eligible persons to receive VA benefits:

1. Grading system as required by the academic standards of the school,
2. Satisfactory grade level as required by the academic standards of the school,
3. Probation and probationary periods as required by the academic standards of the school,
4. Conditions for dismissal, suspension, and readmission as required by the academic standards of the school, and,
5. Satisfactory student conduct as required by the rules and regulations of the school.

The student who receives VA benefits will have his or her pay suspended should he or she make the grades of "F" or "I" preventing completion of his or her program within the required time limit. Reports of unsatisfactory progress or conduct will be made to the Veterans Administration Regional Office and the student may require counseling.

Withdrawal Policy

Students who receive veterans benefits must notify the Office of Veterans Affairs when dropping or adding a course or when withdrawing from school. Each withdrawal or drop resulting in a reduction in the course load must show the effective date of the change and the reason for the change. The withdrawal policies of the school also apply.

Veteran Payments and Responsibilities

Receipt of Checks A student who completes an application at the beginning of the quarter should expect a VA processing period of about six weeks. If the estimated time has elapsed and a check has not arrived, the student should contact the Office of Veterans Affairs immediately and, if the case warrants, an inquiry will be made to the Regional Office.

Payment Since Athens State College does not participate in the advance payment plan for veterans, tuition and fees must be paid in full by the published payment date (except for those veterans receiving Vocational Rehabilitation). Veterans receiving Vocational Rehabilitation are eligible to register without payment of tuition and fees providing that an award authorization letter has been received prior to the registration period.

Overpayments Each veteran drawing benefits should be aware that it is his or her responsibility to comply strictly with the policies and procedures which govern the receipt of educational benefits. Any overpayment created through non-compliance with veterans policies is subject to repayment, and such overpayment can cause a delay in the payment of further benefits.

Responsibilities It is the responsibility of the veteran and dependents receiving VA benefits to notify the Office of Veterans Affairs of the following:

1. Major change
2. Prospective graduation date
3. Changes (Drop and/or adds, credit level, major or dependency status)
4. Every quarter during registration, complete an Athens State College Veterans Registration Information Form in the Office of Veterans Affairs.

Other Types of Veteran Assistance

Work Study Program To be eligible for work-study, a veteran must be enrolled at least three/fourth time and must be receiving V.A. educational benefits. Preference is given to disabled veterans. Attempts are made to capitalize on the student's major area of study so that the work performed will be a practical extension of his or her education. Veterans may work up to a maximum of 250 hours per enrollment term. Payment for the work performed is at the prevailing minimum hourly wage rate in addition to the usual subsistence allotment. An advance equal to the first fifty hours work is available as soon as the employment agreement is processed. After the initial fifty hours, the VA pays the work-study student for each additional fifty hours of work.

Tutorial Assistance Program Veterans enrolled on a half-time or greater basis may receive a special allowance for individual tutoring. To qualify, the veteran must demonstrate deficiency in a subject making tutoring necessary. Each tutor's qualifications must be reviewed and approved by the Office of Veterans Affairs. It is the student's responsibility to secure a tutor. The tutor may be anyone except a family member.



ACADEMIC AFFAIRS

DEGREE OPTIONS

Athens State College offers four baccalaureate degree options: the Bachelor of Arts degree, the Bachelor of Business Administration degree, the Bachelor of Science degree, and the Bachelor of Science in Education degree. Each baccalaureate degree has been examined and accredited by the Southern Association of Colleges and Schools.

Some General Education Requirements may carry specific course requirements. **Students should refer to their major section of the catalog for specific information.**

Bachelor of Arts

The degree of Bachelor of Arts is awarded to students who satisfactorily complete the following general education requirements, requirements for the major and minor in their program of study and applicable general college requirements (page 19).

English Composition 10 quarter hours
Literature 10 quarter hours
History 10 quarter hours
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy) 15 quarter hours
Social Science Electives 5 quarter hours
Behavioral Science Electives 10 quarter hours
Natural Science (May include one approved Computer Science Elective) 15 quarter hours
Mathematics 5 quarter hours

Bachelor of Business Administration

The degree of Bachelor of Business Administration is awarded to students who satisfactorily complete the following general education requirements, requirements for the major (and minor, if applicable) in their program of study, and applicable general college requirements (page 19).

English Composition 10 quarter hours
Humanities (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy) 20 quarter hours
Social Science (Must be in the area of Economics to include EC310 or Principles of Economics I 10 quarter hours
Behavioral Science 10 quarter hours
Natural Science 10 quarter hours
Computer Science (Must be a windows business applications course) 5 quarter hours
Mathematics (College Algebra or equivalent) 5 quarter hours

Bachelor of Science

The degree of Bachelor of Science is awarded to students who satisfactorily complete the following general education requirements, requirements for the major (and minor, if applicable) in their program of study, and applicable general college requirements (page 19).

English Composition 10 quarter hours
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy) 20 quarter hours
Social Science Electives 10 quarter hours
Behavioral Science Electives 10 quarter hours
Natural Science (May include one approved Computer Science elective) 15 quarter hours
Mathematics 5 quarter hours

(The 20 quarter hours in natural science and mathematics are superseded by specific course requirements for all students majoring in a science or technology.)

Bachelor of Science in Education

The degree of Bachelor of Science in Education is awarded to students who satisfactorily complete the general education requirements, professional education requirements, requirements for the major(s) in their program of study, and applicable general college requirements (page 19). The student is referred to the School of Education section of the Catalog to determine specific program requirements. General college requirements are listed below.

GENERAL COLLEGE REQUIREMENTS

A student expecting to receive a degree from Athens State College should apply for graduation not later than the registration period of the term in which he or she expects to graduate. A student must meet satisfactorily all college requirements and financial obligations before the degree is awarded.

To graduate, each student must meet the following general college requirements:

1. Fifty of the last sixty quarter hours of study with Athens State College.
2. A minimum of ninety-six quarter hours of senior college credit, of which at least sixty-three quarter hours must be 300/400 level credit.
3. A minimum of twenty quarter hours of upper (300/400) level coursework in his or her major at Athens State College, not including courses taken by consortium arrangement. School or departmental regulations may require more than twenty quarter hours of coursework in the major at Athens State College.
4. All course requirements for major(s).
5. All course requirements for minor (if applicable).
6. General Education requirements for the degree.
7. An overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
8. A total of 192 quarter hours including all the above.
9. The teacher certification requirements (if applicable).
10. No more than ninety-six quarter hours of non-graded college credit applicable toward the degree.



ACADEMIC POLICIES AND PROCEDURES

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

ACADEMIC ADVISING

Upon admission to Athens State College, each student is assigned a faculty member to serve as an advisor by the appropriate school. The student should confer with his or her advisor at least once each quarter. Although the student bears final individual responsibility for meeting all degree requirements, the academic advisor will assist in planning the student's academic program. A change of major or adjustments to program of study require completion of a Petition for Adjustment of Curriculum (see p. 21).

ACADEMIC CREDIT

The Athens State College calendar consists of quarter-length terms; the unit of credit is the quarter hour. Course descriptions indicate the number of quarter hours which may be earned for a particular course. Transfer credits earned in semester hours will be evaluated on the basis that one semester hour equals one and one-half quarter hours. (Example: a three semester hour course would equal 4.5 quarter hours.) See Transfer Credit Restrictions, on this page.

Correspondence Credit

Any extension or correspondence credit must be from a regionally accredited college or university, and may not exceed eighteen quarter hours. The student must petition through his or her advisor and in turn obtain permission from the Dean for Academic Affairs for credit through extension or correspondence courses.

Business and Proprietary Schools

Students who have completed a program from a regionally accredited business or proprietary school may be admitted to Athens State College. During the admissions process, each student's previous work will be reviewed to ascertain the entry study level of the student. Individual related subject courses and grades cannot be directly transcripted as regulated by the State Board of Education and the Southern Association of Colleges and Schools. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State College degree program but will not affect the total hours residency required for that degree program. Credit earned through this method will not be used in determining the student's cumulative grade point average.

Continuing Education Units.

Athens State College does not accept continuing education units (CEU's) for academic credit.

College Level Examination Program (CLEP)

Athens State College honors credit earned through the College Level Examination Program (CLEP), provided appropriate scores are achieved. Students enrolling or enrolled at Athens State who are interested in attempting the College Level Examinations should consult the Testing Office or the Admissions Office in the Student Center for information.

A student may not receive CLEP credit for any previously attempted college course. Since CLEP is accepted as non-graded credit, it cannot be used in order to raise the grade point average. All CLEP examinations are accepted as freshman-level credit. Although credit may be awarded by the college, applicability toward the degree program is determined by the school concerned.

Credit earned under the Defense Activity for Non-Traditional Education Support (DANTES), and the United States Armed Forces Institute (USAFI) may be granted by Athens State College. Official transcripts of these scores must be mailed directly to the Office of Admissions.

Non-Traditional Credit

Non-traditional academic credit at Athens State College is based upon the belief that it is sound educational practice for colleges and universities to recognize and award academic credit for several types of non-classroom-based learning. Such learning may have been acquired through quality educational programs conducted by various non-collegiate organizations, acceptable work experience, and certain combinations thereof. For complete information regarding acceptance of non-traditional credit see page 26, Non-Traditional Academic Credit

Transfer Credit Restrictions

After achieving junior status or ninety-five quarter hours, a student may not transfer credit for courses taken at a junior college except by prior written permission from the Dean of Academic Affairs. A student's overall grade point average must be 2.0 or higher (transfer and ASC credits).

Transfer students who have completed a major before enrolling at Athens State College may be required to take selected courses for the major at this institution.

Course credit taken at the graduate level or applied toward a graduate degree will not be accepted at Athens State College or recorded on the Athens State

College transcript. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State College degree program but will not affect the total hours residency required for that degree program.

Transient Credit

Any student in good standing who desires to take a course at another college and transfer credit to Athens State College must first petition to do so through his or her advisor. A letter of permission must be obtained from the Admissions Office. The total number of hours taken cannot exceed the maximum allowed in a term at Athens State College. Special permission must be obtained from the Dean for Academic Affairs to return to a junior college

Students on probation are ineligible to enroll for transient credit at other institutions and courses taken elsewhere will not be accepted.

Transcripts of transient work to be applied toward meeting graduation requirements must be received by the ASC Admissions Office within the next quarter after credit is earned, and at least ten weeks prior to the date of graduation.

ACADEMIC HONESTY

Athens State College, like all communities, can function effectively only when its members treat one another with honesty, fairness, respect, and trust. It is the policy of Athens State College to take whatever reasonable actions are required to uphold the standards outlined in the *Honor Code* (see *Honor Code*, Student Handbook.)

ACADEMIC HONORS AND AWARDS

Honors Convocation

A special honors convocation will be held in the spring quarter at which time students with outstanding academic achievements are recognized. To be eligible for nomination for special convocation recognition students must have thirty quarter hours credit in residence on record at Athens State College. All students in a given academic year are eligible for consideration.

Dean's List

The Dean's List is published each quarter and includes the names of students who have attained a 3.75 through 4.0 grade point average on at least fifteen quarter hours of course work for a specific term.

Honorable Mention List

The Honorable Mention List is published each quarter and includes the names of the students who have attained a 3.5 through 3.74 grade point average on at least fifteen quarter hours of course work for a specific term.

Degrees With Distinction

The following degrees with distinction are based on **all** college work at all institutions attended:

Summa Cum Laude -
Awarded to the student who earns a grade point average of 3.9 during his or her college career.

Magna Cum Laude -
Awarded to the student who earns a grade point average of 3.75 during his or her college career.

Cum Laude -
Awarded to the student who earns a grade point average of 3.5 during his or her college career.

To be eligible for honors, one-half of the total hours applied toward the degree must be regular academic course credit.

ACADEMIC RECORD, PERMANENT

The student's permanent academic record will consist of an Athens State College transcript, and **may** include the following: admission application, official transcripts from colleges and universities previously attended, graduation application, degree audit forms, transcript release forms, documentation which may affect the release of student's records and only disciplinary action that would directly affect the student's enrollment in the institution. Financial records are not considered part of the student's permanent academic record.

ADJUSTMENT OF CURRICULUM

The following adjustments of a student's curriculum necessitate completion of a Petition for Adjustment of Curriculum form in consultation with the student's academic advisor:

1. Change to a more recent catalog
2. Change of major/minor
3. Change of degree
4. Substitution for required course
5. Waiver of required course

AUDITED COURSES

Upon recommendation of his or her advisor, a student may audit a non-laboratory course. Students should attend class under the same obligation as the credit student although they are not required to complete scheduled examinations. Standard registration procedures apply. The cost is one-half the regular tuition cost plus the appropriate fees. No change from audit to credit is allowed. Audited classes are on a space available basis. (See pg. 5 also.)

CATALOG REQUIREMENT

A student may complete requirements for graduation as specified in the Athens State College catalog for the year of entry provided he or she does so **within a period of five years** from the original date of entry. In the event that a student does not complete requirements for the undergraduate degree within a period of five years from the date of entry, the College reserves the right to modify the student's program in such a

way as to bring it into harmony with current degree requirements, as well as to re-evaluate credits transferred from other institutions.

CLASS ATTENDANCE

It is accepted academic philosophy that sustained class attendance is essential to the overall educational value of a course of study in higher education. In order to achieve maximum benefit from educational activities, Athens State College expects regular class attendance from all students. Those students receiving veterans' benefits are required to attend classes according to the regulations of the Veterans Administration.

The standards of performance to be met by each student, including specific attendance regulations for each course, will be set by each faculty member for his or her own course. Class attendance policies and other course requirements will be published in the course syllabus and will be discussed in detail by the faculty member on the first day of class each quarter. It is important that the student secure a copy of each course syllabus from the instructor on the first day of class, or from the school offices prior to the beginning of classes. A student's performance in relation to the established standards and class attendance regulations shall determine the student's grade in a course. Any student who must miss an examination has the responsibility for notifying the faculty member as soon as is practical.

CLASS HOUR LOAD

The normal class hour load for a full-time student is fifteen to twenty-one hours (15-21 per quarter including Summer Quarter). During quarters in which compressed sessions are offered, the institution reserves the right to further limit the number of hours for which a student may enroll. Students who wish to take more than twenty-one hours must secure written permission via an overload request form. Requests for exceptions will require written justification along with the following documentation and recommendation of your advisor:

(1) advising worksheet
(2) transcript, and
(3) proposed schedule.

This overload request must be signed by the advisor and School Dean prior to enrollment.

CLASS SIZE, MINIMUM

Athens State College reserves the right to cancel any course with an enrollment of less than ten (10) students.

COMMENCEMENT

Commencement ceremonies will be held following each quarter.

DIRECTED STUDY/RESEARCH COURSES

With approval of the appropriate faculty advisor and School Dean, Athens State College students may complete no more than 10 quarter hours of Directed Study/Research credit during their academic study with the College. Such directed research must be conducted in the student's major area of study.

DROP AND ADD

For a period specified in the college calendar immediately following registration periods, courses may be dropped and other courses added upon completion of the following requirements:

1. The student must complete the appropriate forms in the Office of Admissions; and,
2. Make payments as required in the Business Office. The student is responsible for notifying the academic advisor of schedule changes. **(NOTE: Each change in class schedule requires a $5.00 drop or add fee.)**

Prior to making a change in schedule, students receiving veterans benefits must see the Coordinator of Veterans Affairs; those receiving other financial aid should check with the Director of Student Financial Services.

DUAL ENROLLMENT

Dual enrollment in a junior or community college and Athens State College may be permitted in order to allow the student an opportunity to complete the following junior college general education requirements:

Freshman Composition	10 quarter hours
Mathematics	5 quarter hours
Science	5 quarter hours
Social Science	5 quarter hours
History	5 quarter hours

S.I.R. Agreement (Special Instructional Request)*

Athens State College and Calhoun Community College cooperate in a Special Instructional Request (S.I.R.) program. Grades are reported to the Athens State College Records Office and recorded on the student's Athens State College transcript. To participate in this program, the Athens State student must:

1. **Be deficient in one of the courses listed below:**

English Composition**	101 and 102
Principles of Accounting	243 and 244
Western Civilization	101 and 102
Principles of Economics	231 and 232

Pre-requisite Science and Mathematics** courses

2. Participate in S.I.R. prior to the final two quarters in which graduation at ASC is anticipated. (quarter before graduation and graduation quarter).
3. Register for only one S.I.R. course per quarter.
4. Receive the approval of the faculty advisor (The faculty advisor adds the S.I.R. course to the standard sheet).
5. Register for S.I.R. course only during early or regular registration at ASC.
6. Receive a copy of S.I.R. form during registration.
7. Pay ASC tuition for the S.I.R. course.

8. Notify ASC Admissions Office if class attendance is discontinued.
9. Must be enrolled in at least one course at Athens State College.
10. ASC students may not enroll in Calhoun Telecourses under the S.I.R. Agreement.

ASC students are considered visiting students under the S.I.R. program and are placed in Calhoun courses only after all Calhoun students are registered.

****Student is subject to English and/or mathematics placement exam (ASSET) at Calhoun.***

After meeting with faculty advisor, students registering for an S.I.R. course must go to the Dean of Academic Affairs' office to receive a reference number for the S.I.R. This should be done prior to presenting registration form to the Admissions Office.

Consortium Agreement

Athens State College participates in a Consortium Agreement with The University of Alabama in Huntsville, Alabama A&M University, and Oakwood College. To participate in the program, the student:

1. Must be considered a full-time student at Athens State College.
2. May take only one (1) consortium course per quarter.
3. Must maintain at least a "C" average. (2.0 on a 4.0 scale)
4. Must secure faculty advisor's approval of the course to be taken.
5. May request participation **only** during early and regular registration.

The course to be taken must not be available to the student at his/her home institution and it must be in his/her approved schedule and curriculum plan.

ENGLISH COMPOSITION REQUIREMENTS

It is strongly recommended that students complete ten quarter hours in English Composition or equivalent courses prior to enrollment at Athens State College.

GRADING

Grading Policy

Letter grades of **"A"**, **"B"**, or **"C"** represent levels of accomplishment sufficient to allow students to make satisfactory progress toward graduation. **"D"** level work is considered inferior and the minimum-level accomplishment that will allow the students to continue their studies at Athens State College. A grade of **"F"** is assigned to the student who (1) fails to meet minimum course requirements, or (2) voluntarily discontinues class attendance without officially withdrawing.

A grade of **"W"** will be assigned to a student who officially withdraws during the first six (6) weeks of the regular quarter. After the final exam is given, no "W" can be assigned. Absence from class does not constitute an official withdrawal. A "W" cannot be changed to a grade, nor can a grade be changed to a "W". Starting with the seventh week, a "W" can be assigned only with the permission of the instructor. A student not following these procedures will receive the grade of "F." (See also page 25.)

A grade of **"I"** (incomplete) will be given only under extenuating circumstances and normally will be used to indicate that (l) the student has secured the instructor's permission to complete missing or late work, or (2) the student has obtained prior permission from the Dean of Academic Affairs to take a make-up final examination. Other possible valid reasons for assigning a mark of "I" must be decided by the instructor and the Dean of Academic Affairs.

If an "incomplete" is given, the time allotted a student to complete the course is at the discretion of the instructor; however, a student receiving an "I" in any quarter should be aware that the "I" must be completed before the end of the next quarter or the "I" automatically becomes an "F". For the purpose of computation "I" is always evaluated as "F" until a grade change is made.

Grades of "W" and "AU" do not affect the grade point average.

Grade Points and Letter Grades

For each hour of credit in a subject, the letter grade is equated to grade points as follows:

"A" 4.0 Points
"B" 3.0 Points
"C" 2.0 Points
"D" 1.0 Point
"F" 0.0 Points

Grade Review

Athens State College provides a procedure through which students may request a review of the final grade received in coursework taken at Athens State College. The first attempt by the student should be to contact the faculty member involved and try to resolve the dispute informally. If satisfaction is not achieved at this level, the student may appeal to the Dean of the appropriate school. If satisfaction is not achieved at this level, the student may submit a written appeal to the Dean of Academic Affairs. All appeals should be answered within ten instructional days at each level of appeal. All student appeals shall be initiated within 30 days of the official end of the academic quarter during which the course was taken. The written appeal form can be picked up from the school head or Dean of Academic Affairs office. The decision to change or let stand the final grade received in a course taken at Athens State College is the exclusive right and prerogative of the professor who taught the course and is absolute and

final. Written appeals will be answered in writing by the Dean of Academic Affairs.

GRADUATION APPLICATION

A student expecting to receive a degree from Athens State College should complete an Application for Graduation, and pay the appropriate graduation fee, not later than the registration period of the term in which he or she expects to graduate. Deadline dates are published in the schedule. For a student who does not make the graduation applicaton deadline, there will be a fee charged in the amount of $25.00 for this special diploma order.

REPEATED COURSES

A student who has made an unsatisfactory grade in a course and who wishes to repeat the course to earn a higher grade must repeat the course at Athens State College. A grade earned with Athens State College will be listed on the official transcript, but only the last course attempted will be used in computing the grade point average and will be applied toward the degree. Bachelor of Science in Education students should understand that GPA is calculated using grades from all courses attempted (professional studies and content courses). (For pertinent regulations for Veterans receiving educational benefits please see Veterans Advisement.)

SECOND DEGREE

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of fifty quarter hours in residency at Athens State College beyond the conferral date of the first degree.

STANDARDS OF PROGRESS AND ACADEMIC STANDING

The Athens State College policy for satisfactory academic progress is designed to assist the student in meeting and maintaining a level of achievement that will assure reasonable progress toward graduation. All students should be aware that a cumulative minimum grade point average of 2.0 on a 4.0 scale is required for graduation. Since some academic schools have more stringent requirements, students should consult the section of the catalog relating to their major to determine any G.P.A. restrictions.

Academic Probation/Continued Probation

An academic review of each student's record occurs at the completion of each term. Any student whose grade point average at Athens State College falls below 2.0 is immediately placed on **Academic Probation**. A student whose subsequent grades indicate improvement but who fails to raise his or her grade point average to 2.0 will be placed on **Continued Probation** (continued normally not more than two terms) to allow time to repeat courses or otherwise raise the grade point average to the 2.0 minimum.

After a period of continued probation the student is given notice of **Final Probation** status for one quarter. Continued enrollment with Athens State College will depend on grades received during the Final Probation period. Failure to bring the grade point average up to a 2.0 will result in the student being dropped for poor scholastic standing. Students on Final Probation are not allowed preregistration privileges.

Students with probationary status at Athens State College cannot receive permission to take course work from another institution. Credit earned at another institution may not be used to clear probationary status at Athens State College. Any student who fails to attain at least a 1.0 grade point average during any term may be suspended for poor scholastic standing.

Readmission of Students Previously Dropped for Poor Scholastic Standing

Students dropped for poor scholastic standing may be considered for readmission after a period of one quarter. Students granted readmission are placed on **Restrictive Probation**.

Restrictive Probationary Status

Students on **Restrictive Probation** must maintain a minimum 2.0 grade point average during the quarter in which they have been placed on Restrictive Probation. Failure to maintain the required 2.0 after being readmitted on restrictive probation will cause the student to be placed on **Indefinite Suspension** and dropped from active student status. Students on restrictive probation will not be allowed preregistration privileges.

Indefinite Suspension

Students placed on **Indefinite Suspension** will not be considered for re-admission for at least one full academic year. The student must make a written request to the Admissions Committee in care of the Admissions Office at least one month prior to the registration period of the intended term of re-entry. The Admissions Committee has the right to allow or disallow re-entry to the College. Students granted readmission are placed on restrictive probation.

Academic Bankruptcy

According to State Board Policy, a student may request in writing to the Registrar to declare academic bankruptcy under the following conditions:

a. If fewer than three (3) calendar years have elapsed since the quarter for which the student wishes to declare bankruptcy, the student may declare academic bankruptcy on all coursework taken during that one quarter provided the student has taken a minimum of 30 quarter credit hours of coursework at the institution since the bankruptcy quarter occurred. All coursework taken, even hours completed satisfactorily, during the quarter for which academic bankruptcy is declared will be disregarded in the cumulative grade point average.

b. If three or more calendar years have elapsed since the most recent quarter for which the student wishes to declare bankruptcy, the student may declare aca-

demic bankruptcy on all coursework taken during 1-3 quarters provided the student has taken a minimum of 30 quarter credit hours of coursework at the institution since the bankruptcy quarter occurred. All coursework taken, even hours completed satisfactorily, during the quarter(s) for which academic bankruptcy is declared will be disregarded in the cumulative grade point average.

When academic bankruptcy is declared the term "ACADEMIC BANKRUPTCY" will be reflected on the transcript for each quarter affected. When academic bankruptcy is declared, the transcript will reflect the quarter of its implementation and the transcript will be stamped "ACADEMIC BANKRUPTCY IMPLEMENTED."

A student may declare academic bankruptcy only once.

Implementation of academic bankruptcy at an institution does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

STUDENT CLASSIFICATION

Juniors - Students who have earned a minimum of ninety-six quarter hours of credit or who have received an Associate degree from an accredited two-year college.

Seniors - Students who have completed a minimum of 144 quarter hours of credit.

Non-Degree Seeking - Student not seeking a degree.

TESTING/ASSESSMENT

The CAAP examination (Reading, Math and Writing) is administered to all first time enrollees during their first quarter of enrollment. Students who have taken this examination at other institutions may submit scores and be exempt from testing at Athens State College. Students are required to take these examinations as part of our assessment program. This assessment provides the institution information on our entering student body as well as provides to each student a "benchmark" on current levels of understanding in these three areas. The scores may assist students in determining course selection or in seeking additional assistance in our Writing and Math Centers.

Students seeking admission to the Teacher Education Program will also take the BST (Basic Skills Test) prior to the end of their third quarter of enrollment. Students who score below the 320 level may be given conditional admission to the Teacher Education Program and must complete fifteen hours in the Writing Center to receive full admission. Near the end of the senior year, all teacher education students will be required to take "exit" examinations within their varied disciplines (majors). These comprehensive exit exams cover the content of the teaching field(s) and the professional education segment. [See also "Teacher Education Program," p. 37.]

In non-teacher education fields, each department (major) will require some form of exit assessment. The requirement may be a capstone experience, exit exam, or other method to assess whether students leaving the program have all the necessary curricular attributes as well as to assess the effectiveness of the curriculum within the major. This is an opportunity for self-reflection and synthesis, allowing the student to demonstrate integration of learning and academic growth. Assessment helps the institution meet student needs and helps ensure that teaching and learning are actually taking place. Assessment is continually under review to determine its value and effectiveness. All assessment methods are subject to change as determined appropriate for the institution. Any student having questions about assessment should contact the Testing Office or the appropriate School Dean. [See also "Testing", p. 15.]

WITHDRAWAL

A grade of "W" will be assigned to a student who officially withdraws during the first six (6) weeks of the regular quarter. Starting with the seventh week, a "W" can be assigned only with the permission of the instructor. After the final exam is given, no "W" can be assigned. Absence from class does not constitute an official withdrawal. A "W" cannot be changed to a grade, nor can a grade be changed to a "W". Starting with the seventh week, a "W" can be assigned only with the permission of the instructor. A student not following these procedures will receive the grade of "F." (See also p. 23.)

Withdrawal from classes is not complete until the student has been cleared through the Office of Admissions. Special regulations pertain to those receiving veterans benefits or financial aid, and those individuals should confer with the Coordinator of Veterans Affairs or the Director of Student Financial Services prior to initiating a withdrawal action. Specific dates for withdrawal will be included in the schedule each quarter.



NON-TRADITIONAL ACADEMIC CREDIT

Philosophy and Purpose

The Non-Traditional Academic Credit program at Athens State College is an acknowledgment of the philosophy that it is valid educational practice to recognize and award academic credit for various types of learning attained outside the institution. Such learning may have been acquired through certain educational programs conducted by government, business and industry, the military, and other non-collegiate organizations. In addition, non-traditional academic credit may be awarded for acceptable work experience, and/or technical training. The eligible Athens State College student may apply non-traditional experiences and training to several programs of study leading to a college degree.

Eligibility

The student who makes application for non-traditional academic credit must have maintained active and current enrollment as a degree seeking student at Athens State College for a minimum of one academic quarter. Applicants for non-traditional academic credit are expected to have satisfied the admission standards as published in the Athens State College catalog. However, applicants who do not otherwise satisfy the minimum quarter hour standards for admission, and who are eligible for one or more types of non-traditional credit may use work/military experience credit to justify admission to Athens State College provided:

*The experience is judged to be equivalent to completion of a technical degree program in an accredited technical college.

*The experience is judged to be not less than the minimum hours of college credit required of junior and senior college transfers.

*The applicant has completed at least thirty quarter/twenty semester hours of course work at a regionally accredited institution.

*The completed course work includes English Composition I and II, and College Algebra or the equivalent.

*The applicant has maintained at least a 2.0 on a 4.0 scale on all course work attempted.

Admission to Athens State College will be considered conditional until transcripts from all previously attended colleges and universities, and documentation for all non-traditional credits have been received and verified.

Official evaluations will be processed when (1) the applicant has presented proof of satisfactory completion of one quarter at Athens State, and (2) transcripts from all previously attended institutions have been recorded.

Limitations

* Credit from non-traditional sources will be granted only if such credit does not duplicate other academic credit.

*Non-traditional academic credit is granted only if such credit is applicable to the student's course of study.

*A maximum of ninety-six quarter hours earned through non-traditional/non-graded sources may be applied toward a student's degree program.

*Applications for non-traditional academic credit will not be accepted during the student's final quarter of enrollment.

Publication Guides

Publications used as guides in the office of Non-Traditional Credit are as follows:

1. The American Council on Education (ACE)
 a. Guide to the Evaluation of Educational Experiences in the Armed Services.
 b. The National Guide to Educational Credit for Training Programs.
2. Other guidebooks and manuals as provided by appropriate accrediting agencies.

Types of Non-Traditional Academic Credit

The types of non-traditional academic credits processed by the Office of Non-Traditional Credit, the documentation requirements and the procedures to be followed are listed on the following page.

Military Training

Academic credit may be awarded to students who have served in the Armed Forces and have completed specialized training provided the following documentation is received:

(1) AARTS Transcript (If available).
(2) Copies of DD214, DA21, DA20 and DD295.
(3) Copies of certificates, awards, and/or other related military courses or training.

United States Air Force members whose military experience has been accepted by the Community College of the Air Force, should not apply for non-traditional academic credit but should have transcripts forwarded from CCAF directly to the Office of Admissions.

Military documentation will be evaluated in conformance with:

1. Military Occupational Specialties (MOS)
 Appropriate college credit will be granted based on the exhibit date and the ACE course credit recommendation.
2. Military Education
 Appropriate college credit will be granted based on the date and place the course(s) was taken and the ACE course credit recommendation. Academic credit may be awarded at the lower division or upper division category in accordance with ACE recommendations. **Duplication of credits will not be granted.** The decision to accept academic credit for military evaluations toward specific courses in a

degree program will be made by the student's academic advisor.

Vocational/Technical/Professional Education

Academic credit may be awarded for vocational and technical professional education provided the following documentation is received:

1. Documentation for teaching professional education such as a letter from a director or president specifying length of tenure as a teacher, and validating the successful nature of the experiences.

2. Documentation status card.
 a. Journeyman status card.
 b. Apprenticeship certificate.
 c. Journeyman examination credentials.

3. Documentation of additional training.
 a. Any certificates, letters, or transcripts of additional technical training.
 b. Official transcripts from all previously attended educational institutions.

Vocational experience may require validation by the National Occupational Competency Testing Institute (NOCTI) or another comparable examination of competency approved by the Postsecondary Education Services of the State Department of Education.

For certification requirements, at least three years compensated vocational work experience in the technical specialty is required for those who have completed a formal postsecondary technical training program; those who have not completed the formal technical training must have completed six years compensated work experience in the technical specialty.

The decision to award vocational/technical/professional education credits will be made by the Vocational and Technical Education faculty advisor.

Nursing and Other Health Related Professional Training

Academic credit may be awarded to a student who has completed a professional training program in nursing or other health related professions and holds a license. The following documentation is required:

1. Official transcripts of educational training.
2. Copy of license or proof of successful completion of a State Board Examination.
3. Documentation and verification of work experience in related field, including dates of service and positions held.

The decision to accept nursing and other health related professional training toward specific courses will be made by the Health Services advisor.

Technical Work Experience Credit

Up to a maximum of 65 quarter hours of academic credit may be awarded as a Basic Technical Specialty established through compensated work experience in selected technical fields. The Basic Technical Specialty is intended primarily to satisfy technology core requirements and is awarded as lower division credit. The procedures for the evaluation of such credit are as follows:

1. The student who wishes to apply for the Basic Technical Specialty must present appropriate documentation and verification of at least six years of successful compensated work experience in an approved technology.
2. The application must be made in writing to the student's academic advisor or to the Coordinator of Non-traditional Academic Credit Evaluations.
3. A non-refundable filing fee of $50.00 must be paid for the evaluation process.

The decision to accept technical work experience toward a student's degree program will be made by the Academic Advisor or the appropriate School Dean. The decision is final and absolute.

Work Based Academic Credit

Up to a maximum of 20 quarter hours of senior college credit may be earned through a process that involves validation of appropriate work experience and demonstration of academic competency by examination. Such credit is available for selected courses taught by Athens State College. The student's academic advisor should be consulted to determine the specific course(s) in which credit may be awarded through this process. The procedures for the evaluation of such credit are as follows:

1. The student must submit an application for the specific course(s) for which credit is sought. Each course requested must be listed in the current Athens State College catalog or the catalog under which the student entered.
2. The student must submit valid documentary evidence containing a complete description of the actual work experience as it relates to the content and instructional objectives of each course requested.
3. Proof of a minimum of four years related work experience for each course requested must be clearly established by the evidence presented.
4. Tuition for each course, in the amount of the current Athens State College tuition rate must be paid with the application. The tuition is non-refundable.
5. When the work experience data has been evaluated and accepted as appropriate, a written examination covering the content area of the course may be administered by the academic school offering the course(s). If a passing grade is earned, academic credit will be awarded.

The decision to award work based academic credit will be made by the appropriate School Dean. The decision is final and absolute. Application forms may be obtained from the office of non-traditional academic credit evaluations or the deans of schools.

Police Academies

Academic credit may be awarded to students who have completed police academy training and who have acceptable work experience with law enforcement agencies. The procedures for evaluation of such credit are as follows:

1. The student must submit proof of police academy training.
2. The student must submit letters of documentation from employers/supervisors indicating dates of service and positions held.

The decision to accept credit for police academy training will be made by the Justice Studies advisor.

Public Safety Administration

Academic credit may be awarded to students who have earned certain public safety certifications and/or work experience in Public Safety Management and/or supervision. Copies of professional certifications and documentation and verification of work experience including letters of appointment (if required) must be submitted with the application. Applicable tuition at the current Athens State College tuition rate must be paid for each course evaluated under this process. The decision to accept credit for Public Safety Administration evaluations will be made by the Public Safety Administration advisor.

Other Types of Non-Traditional Academic Credit

Academic credit may be awarded from other professional associations and government agencies provided proper documentation is submitted and accepted as appropriate.

For additional information on Non-Traditional Academic Credits, students should contact their academic advisor or the Office of Non-Traditional Academic Credits in the Student Center.



Academic Schools

School of Business

James F. Haynes, Ph.D.
School Dean

School of Education

Jonita Haynes, Ph.D.
School Dean

School of Humanities and Social Sciences

Curtis D. Coleman, D. Min.
School Dean

School of Science and Mathematics

Thomas S. Jandebeur, Ph.D.
School Dean

School of Business

Founders Hall

James F. Haynes, Ph.D.

School Dean

YOUR HIGHWAY OF OPPORTUNITY

ACADEMIC UNIT	MAJOR, MINOR OR CONCENTRATION	B.B.A.	Minor	Certificate
ACCOUNTING	Accounting	*		
MANAGEMENT	Management	*		
	Procurement & Acq. Mgmt.			*
MANAGEMENT OF TECHNOLOGY	Management of Technology	*		
HUMAN RESOURCE MANAGEMENT	Human Resource Management	*		
BUSINESS ADMINISTRATION	Business Administration		*	

SCHOOL OF BUSINESS

James F. Haynes, Ph.D., School Dean

The mission of the School of Business is to offer programs of study to students that will prepare them for positions in business, finance, or government; enhance the professional development of those already employed, and provide an academic framework for graduate study leading to professional positions. The purpose of the School of Business is to provide quality education for all students, teaching them to think independently, to communicate, to make decisions, to solve problems, and to be life-long learners. To carry out its mission and support its purpose, the School of Business has established the following seven goals:

- Provide for continuous improvement of the programs within the School of Business in keeping with the standards set by Athens State College.
- Place excellence in teaching as the number one priority for serving students and for evaluating faculty.
- Offer academic advising services to students to ensure that they complete their degree programs in a timely manner.
- Support faculty development by providing funding for attending seminars and workshops and for presentation of research.
- Encourage growth and diversity in the faculty and student body.
- Seek community and business relationships for advice and support of student and curriculum needs.
- Maintain cooperative working relationships with other educational institutions that facilitates student transfer, maximizes resource utilization and provides quality programs.

The School of Business is a "Candidate for Accreditation"with the Association of Collegiate Business Schools and Programs (ACBSP) and its curriculum complies with the Common Professional Component (CPC) recommended by this body. Instruction offered by the School of Business is designed to assist in the preparation of competent and effective professionals in the areas of accounting and management. Students completing a degree program offered by the School of Business will possess the following skills and competencies:

1. Knowledge of accounting and economic concepts.
2. Knowledge of management and marketing concepts.
3. An ability to effectively use problem-solving techniques.
4. An ability to effectively and correctly use communication techniques.
5. An ability to effectively and correctly use quantitative techniques.
6. An understanding of the legal and ethical environment of business.
7. An understanding of microcomputer usage as it relates to business.
8. An understanding of the sources and uses of funds for business operation and the calculation of the cost of capital.
9. An understanding of production theory and practice.
10. An understanding of the operation of the global economy.

The School of Business offers programs of study leading to the Bachelor of Business Administration degree with majors in accounting, management, the management of technology, and human resources management. In cooperation with the School of Humanities and Social Sciences, the School of Business participates in an interdisciplinary program of study leading to the Bachelor of Science degree in public safety administration (refer to page 86 of this catalog for the program description.) In cooperation with the School of Science and Mathematics, the School of Business participates in a program of study leading to the Bachelor of Science degree with a major in Science and Management (refer to page 119 of this catalog for the program description). Students who plan to do graduate study in a business field are encouraged to take MA309 Business Calculus.

It is the student's responsibility to comply with the School of Business coursework requirements. Under no circumstances are alterations or substitutions in required coursework permitted without prior approval of the business faculty members in the major area, the student's faculty advisor and the School Dean.

ACCOUNTING

The objective of the major in accounting is to prepare students for a wide variety of careers in professional accounting, including public accounting, industrial accounting, internal auditing, and government service and to provide an academic framework for future graduate study. In addition to the program components listed below the student should complete the general college requirements and satisfy the conditions for graduation listed on page 19.

Students who plan to sit for the CPA Exam in Alabama must complete a total of at least 225 quarter hours. This may be accomplished by completing a master's degree in accounting or business that provides the coursework required by the Alabama CPA Board.

Bachelor of Business Administration - Accounting

MAJOR CODE: 52.0301A

Program components for the Bachelor of Business Administration degree with a major in Accounting include:

1. Applicable general college requirements (pg. 19).
2. A hundred and ten quarter hour core of business and accounting courses.

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities (must represent three of the following areas: Art, Music, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science (Must be in the area of Economics to include EC 310 or Principles of Economics I	10 quarter hours	___ ___
Behavioral Science	10 quarter hours	___ ___
Natural Science	10 quarter hours	___ ___
Computer Science (must be a windows business applications course)	5 quarter hours	___
Math (College Algebra or equivalent)	5 quarter hours	___
TOTAL QUARTER HOURS	70 quarter hours	

4. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.
5. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C".

6. **ACCOUNTING AND BUSINESS CORE:**

Accounting Principles		10 quarter hours	___ ___
AC	320 Computer Augmented Accounting	5 quarter hours	___
AC	321 Intermediate Accounting I	5 quarter hours	___
AC	322 Intermediate Accounting II	5 quarter hours	___
AC	323 Intermediate Accounting III	5 quarter hours	___
AC	341 Governmental Accounting	5 quarter hours	___
AC	361 Federal Tax Accounting	5 quarter hours	___
AC	371 Cost Accounting	5 quarter hours	___
AC	401 Auditing	5 quarter hours	___
AC	425 Accounting Information Systems	5 quarter hours	___
AC	431 Advanced Accounting	5 quarter hours	___
FIN	350 Managerial Finance	5 quarter hours	___
GBA	305 Statistical Methods of Business I	5 quarter hours	___
GBA	306 Statistical Methods of Business II	5 quarter hours	___
GBA	311 The Legal Environment of Business	5 quarter hours	___
GBA	312 Law for Accountants	5 quarter hours	___
MG	320 Managerial Communications	5 quarter hours	___
MG	346 Principles of Management	5 quarter hours	___
MG	405 Production and Operations Management	5 quarter hours	___
MG	420 Business Policy	5 quarter hours	___
MK	331 Marketing Principles	5 quarter hours	___
TOTAL QUARTER HOURS*		110 quarter hours	

*At least **60 quarter hours** of accounting and business courses must be taken at the senior college level, including a minimum of 40 quarter hours with Athens State College.

Free elective quarter hours	12 quarter hours	___ ___ ___
TOTAL QUARTER HOURS FOR PROGRAM OF STUDY	192 quarter hours	

MANAGEMENT

The objective of the major in management is to provide students with a comprehensive business education which will prepare them to enter managerial employment or to assist in the development of individuals who hold those positions. In addition, it provides an academic framework for future graduate study. The major encompasses the traditional business curriculum which includes coursework in accounting, economics, finance, management, marketing and the legal environment of business. Program components for the Bachelor of Business Administration in Management are listed below. In addition the student must satisfy the general college requirements listed on page 19.

Bachelor of Business Administration - Management

MAJOR CODE: 52.0201A

Program components for the Bachelor of Business Administration degree with a major in Management include:

1. Applicable general college requirements (pg. 19).
2. A ninety quarter hour core of business courses.

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science (Must be in the area of Economics to include EC 310 or Principles of Economics I)	10 quarter hours	___ ___
Behavioral Science	10 quarter hours	___ ___
Natural Science	10 quarter hours	___ ___
Computer Science (Must be a windows business applications course)	5 quarter hours	___
Math (College Algebra or the equivalent)	5 quarter hours	___
TOTAL QUARTER HOURS	70 quarter hours	

4. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.

5. Completion of a capstone course, MG 420, Business Policy, with a minimum grade of "C".

6. **BUSINESS CORE:**

Accounting Principles or equivalent	10 quarter hours	___ ___
EC 320 International Commerce	5 quarter hours	___
EC 321 Money and Banking	5 quarter hours	___
FIN 350 Managerial Finance	5 quarter hours	___
GBA 305 Statistical Methods of Business I	5 quarter hours	___
GBA 306 Statistical Methods of Business II	5 quarter hours	___
GBA 311 The Legal Environment of Business	5 quarter hours	___
MG 302 Management Information Systems	5 quarter hours	___
MG 320 Managerial Communications	5 quarter hours	___
MG 346 Principles of Management	5 quarter hours	___
MG 349 Human Resources Management	5 quarter hours	___
MG 353 Project Management	5 quarter hours	___
MG 375 Organizational Behavior	5 quarter hours	___
MG 405 Production and Operations Management	5 quarter hours	___
MG 416 Entrepreneurship	5 quarter hours	___
MG 420 Business Policy	5 quarter hours	___
MK 331 Marketing Principles	5 quarter hours	___
TOTAL QUARTER HOURS*	90 quarter hours	

*At least 60 quarter hours of business courses must be taken at the senior college level, including a minimum of 40 quarter hours with Athens State College.

Free Elective Quarter Hours	32 quarter hours	___ ___ ___ ___ ___ ___ ___
TOTAL QUARTER HOURS REQUIRED FOR PROGRAM OF STUDY	192 quarter hours	

MANAGEMENT OF TECHNOLOGY

Athens State College offers to technical personnel including the graduates of technical schools or colleges the opportunity to complete a baccalaureate degree in the management of technology. The person who seeks the Bachelor of Business Administration in Management of Technology is to complete the requirements described below in addition to general college requirements.

Bachelor of Business Administration - Management of Technology

MAJOR CODE: 52.9999A

Program components for the Bachelor of Business Administration degree with a major in Management of Technology include:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science (Must be in the area of Economics to include EC 310 or Principles of Economics I)	10 quarter hours	___ ___
Behavioral Science	10 quarter hours	___ ___
Natural Science	10 quarter hours	___ ___
Computer Science (Must be a windows business applications course)	5 quarter hours	___
Math (College Algebra or its equivalent)	5 quarter hours	___
TOTAL QUARTER HOURS	70 quarter hours	

3. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.

4. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C".

5. **TECHNICAL CORE:**
Technical Training: Six or more quarters/technical school or college, or
Work Experience: Six years documented, successful work experience, or
Professional program: Fine arts or health sciences.

TOTAL QUARTER HOURS (minimum of 50)	50 quarter hours	___

6. **BUSINESS CORE:**

Principles of Accounting I or AC 300	5 quarter hours	___
EC 321 Money and Banking	5 quarter hours	___
FIN 350 Managerial Finance	5 quarter hours	___
GBA 305 Statistical Methods of Business 1	5 quarter hours	___
GBA 311 The Legal Environment of Business	5 quarter hours	___
MG 302 Management Information Systems	5 quarter hours	___
MG 320 Managerial Communications	5 quarter hours	___
MG 346 Principles of Management	5 quarter hours	___
MG 352 Culture/TQM in the Global Market	5 quarter hours	___
MG 405 Production and Operations Management	5 quarter hours	___
MG 418 Management of Technology	5 quarter hours	___
MG 419 Technology Transfer and Commercialization	5 quarter hours	___
MG 420 Business Policy	5 quarter hours	___
MK 331 Marketing Principles	5 quarter hours	___
TOTAL QUARTER HOURS*	70 quarter hours	

At least 45 quarter hours of business courses must be taken at the senior college level, including a minimum of 40 quarter hours of credit with Athens State College.

Free Elective Quarter Hours	2 quarter hours	___

TOTAL QUARTER HOURS REQUIRED FOR PROGRAM OF STUDY 192 quarter hours

HUMAN RESOURCES MANAGEMENT

The objective of the major in Human Resources Management is to provide students with a program of study that will prepare them for a variety of employment opportunities in the area of human resource management and provide an academic framework for future graduate study. The curriculum combines traditional business courses, specialized management courses, and related psychology courses.

Bachelor of Business Administration - Human Resources Management
MAJOR CODE: 52.1001A

Program components for the Bachelor of Business Administration degree with a major in Human Resources Management include:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science (Must be in the area of Economics to include EC 310 or Principles of Economics I)	10 quarter hours	___ ___
Behavioral Science (Must include General Psychology or equivalent)	10 quarter hours	___ ___
Natural Science	10 quarter hours	___ ___
Computer Science (Must be a windows business applications course)	5 quarter hours	___
Mathematics (College Algebra or the equivalent)	5 quarter hours	___
TOTAL QUARTER HOURS	70 quarter hours	

3. Earning an acceptable score on assessment instrument containing questions dealing with the ten competency and skill areas around which the curriculum is based.

4. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C".

5. **PROFESSIONAL CORE:**

Accounting Principles I or AC 300		5 quarter hours	___
EC	348 Labor Economics	5 quarter hours	___
FIN	350 Managerial Finance	5 quarter hours	___
GBA	305 Statistical Methods of Business **or** PS 341 Statistics in Behavioral Science	5 quarter hours	___
GBA	311 Legal Environment of Business	5 quarter hours	___
GBA	368 Industrial and Personnel Psychology	5 quarter hours	___
MG	302 Management Information Systems	5 quarter hours	___
MG	320 Managerial Communications	5 quarter hours	___
MG	346 Principles of Management	5 quarter hours	___
MG	349 Human Resources Management	5 quarter hours	___
MG	351 Labor Management Relations	5 quarter hours	___
MG	352 Culture/TQM in the Global Market	5 quarter hours	___
MG	375 Organizational Behavior	5 quarter hours	___
MG	405 Production and Operations Management	5 quarter hours	___
MG	410 Employment Law for Business	5 quarter hours	___
MG	420 Business Policy	5 quarter hours	___
MK	331 Marketing Principles	5 quarter hours	___
PS	331 Social Psychology	5 quarter hours	___
PS	335 Adult Psychology	5 quarter hours	___
PS	352 Abnormal Psychology	5 quarter hours	___
PS	461 Tests and Measurements	5 quarter hours	___
TOTAL QUARTER HOURS*		105 quarter hours	

*At least 60 quarter hours of business and psychology courses must be taken at the senior college level, including a minimum of 40 quarter hours with Athens State College.

Free Elective Quarter Hours	17 quarter hours	___ ___ ___ ___
TOTAL QUARTER HOURS REQUIRED FOR PROGRAM OF STUDY	192 quarter hours	

CERTIFICATE IN PROCUREMENT AND ACQUISITION MANAGEMENT

Athens State College offers a specialized certificate in procurement and acquisition management. Students who seek this certificate should complete the requirements described below.

PROCUREMENT COURSES:

PR 394	Introduction to Procurement	5 quarter hours	___
PR 395	Price and Cost Analysis	5 quarter hours	___
PR 396	Advanced Procurement Concepts & Govt. Contract Law	5 quarter hours	___
PR 397	Contract Negotiations	5 quarter hours	___
PR 398	Contract Administration	5 quarter hours	___
TOTAL QUARTER HOURS		25 quarter hours	

BUSINESS ADMINISTRATION MINOR

In order to better serve the entire student body of Athens State College, the School of Business makes available to those students majoring in non-business disciplines, a structured minor in the area of Business Administration. The student seeking a minor in Business Administration must complete forty quarter hours of Business Administration courses to include the following:

AC	300 Fundamentals of Accounting (or Principles of Accounting I)	5 quarter hours	___
EC	310 Modern Economics (or Principles of Economics I)	5 quarter hours	___
FIN	350 Managerial Finance	5 quarter hours	___
GBA	305 Statistical Methods of Business I	5 quarter hours	___
GBA	311 The Legal Environment of Business	5 quarter hours	___
MK	331 Marketing Principles	5 quarter hours	___
MG	320 Managerial Communications	5 quarter hours	___
MG	346 Principles of Management	5 quarter hours	___
TOTAL QUARTER HOURS		40 quarter hours	

LOGISTICS UNIVERSITY

The School of Business participates in consortium agreements with Alabama A&M University and the University of Alabama in Huntsville to offer coursework to employees of the Missile Logistics Center at Redstone Arsenal.

School of Education

McCain Hall

Jonita Haynes, Ph.D.
School Dean

ACADEMIC UNIT	MAJOR	B.S.Ed.	B.S.
EARLY CHILDHOOD EDUCATION	Early Childhood	*	
ELEMENTARY EDUCATION	Elementary	*	
SECONDARY EDUCATION	Biology	*	
	Chemistry	*	
	Comprehensive Science	*	
	English	*	
	History	*	
	Language Arts	*	
	Mathematics	*	
	Political Science	*	
	Social Science	*	
SPECIAL EDUCATION	Special Education—Learning Disabilities	*	
VOCATIONAL EDUCATION	Secondary Trade & Industrial Ed.	*	
	Vocational & Technical Ed. (non-Cert.)	*	
	Instructor/Staff Development (non-Cert.)	*	
PHYSICAL EDUCATION	Physical Education	*	*

SCHOOL OF EDUCATION

Jonita Haynes, Ph.D., School Dean

The Teacher Education Program at Athens State College promotes the professional development of students who seek teaching as a career, students who will become "Teachers for America's Future. Students are advised and assisted in each phase of their preparation program. The School of Education offers an undergraduate degree leading to Class B Certification in Early Childhood Education, Elementary Education, High School Education, Physical Education, Special Education, and Secondary Trade and Industry. A program for endorsement in middle school is also available. In addition, the School of Education offers a non-teaching program to physical education majors and a day-trade certification in vocational trade industrial education.

The School of Education reserves the right to deny credit for course work that is not current. An average of "C" or better is required in English composition and a grade of "C" or better is required in introductory or fundamentals of speech. Students who do not meet these criteria must repeat English composition or take a composition course at Athens State College with a grade of "C" or better, repeat an introductory speech course or take speech courses offered at Athens State College with a grade of "C" or better.

The preparation of teachers is built on a liberal arts foundation. Those students preparing for teaching positions in the secondary schools pursue a composite teaching specialization or complete two approved teaching specializations. Students preparing to teach early childhood and elementary education concentrate on subject matter relevant to the major. Those who are preparing to teach special education or physical education pursue a broad program appropriate to both elementary and secondary schools. All groups complete their programs with specific and appropriate professional courses.

All programs are designed to assist students in acquiring knowledge and abilities to become teachers who are effective communicators; knowledgeable scholars; positive and supportive professionals; resourceful curriculum planners; skilled facilitators of developmental growth; student-centered, reflective instructors; capable classroom managers; competent evaluators; and lifelong learners. Faculty model varied methods, strategies, and techniques; students demonstrate attainment of knowledge and skills in classes and campus-based and field-based settings. The development of a professional portfolio that reflects evolving professional growth and the ability to integrate general learning, subject matter, professional studies, and pedagogical studies is required of each candidate.
Follow-up studies of graduates are conducted in an effort to assess teaching effectiveness and to secure data vital to future planning and development. Special assistance is offered to the beginning teacher.

Changes to the requirements of the Teacher Education Program may occur at any time. Students are advised to check updated program of study forms for these changes.

TEACHER EDUCATION PROGRAM

Admission

Prior to enrolling in certain professional education courses other than ED 300, Foundations of Education, a student must be admitted to the Teacher Education Program. All students wishing to enter the Teacher Education Program must meet the following requirements prior to the end of their third quarter:

1. Present documentation of proficiency on the Basic Skills Test. This test is administered in January, April, July, and October. Applications must be submitted several weeks in advance and are available in the Testing Office, Student Center, or the Certification Office, McCain Hall. To be admitted to TEP a student must score a minimum of 320 OR score between 300 and 319 AND submit verification of 15 clock hours in Athens State College Writing Lab and/or Math Lab according to recommendations.

2. Achieve an average of "C" or better in English composition and a grade of "C" or better in introductory or fundamental speech.

3. Complete Education 300, Foundation of Education, or equivalent, with a grade of "C" or better.

4. Receive recommendation from the interviewer who reviews the applicant's personal traits, experiences, interests and aptitudes as these relate to the requirements for successful teaching. An essay written by the applicant is also reviewed at this time.

5. Achieve a grade point average of at least 2.50 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and Overall.

 General Education Requirements—Only courses used must be included in the calculation.

 Professional Education Requirements—Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Teaching Field Requirements—Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Overall—using courses applicable to degree, professional studies courses, and teaching field courses.

 Overall GPA is the total of all three areas above:
 —Add hours attempted for the three areas
 —Add quality points for the three areas
 —Divide hours attempted into quality points

6. Submit documentation of a current, negative chest x-ray or tuberculosis skin test.

7. Complete and submit the Written Application for Admission to Teacher Education and Essay (usually completed in ED 300) to the School of Education. This application should be submitted on or before:

July 20	for admission prior to Fall Quarter
October 20	for admission prior to Winter Quarter
January 20	for admission prior to Spring Quarter
April 20	for admission prior to Summer Quarter

Retention

1. A student may be dropped from the Teacher Education Program for failure to maintain the standards of performance required for admission to the program. The student will be supervised and evaluated in an effort to eliminate his or her deficiencies.

2. Maintain a grade point average of at least 2.50 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and Overall.

 General Education Requirements—Only courses used must be included in the calculation.

 Professional Education Requirements—Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Teaching Field Requirements—Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Overall—using courses applicable to degree, professional studies courses, and teaching field courses. Overall GPA is the total of all three areas above:
 —Add hours attempted for the three areas
 —Add quality points for the three areas
 —Divide hours attempted into quality points

3. A Professional Review Board composed of education faculty members meets periodically to review unsatisfactory performance and progress of students referred by faculty members. Recommendations are determined by consensus.

4. A student must maintain a current validation of a negative chest x-ray or tuberculosis skin test throughout the teacher Education Program.

Completion

In addition to the specified courses in each approved program, the student must meet the following requirements:

1. Maintain a grade point average of at least a 2.50 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and Overall.

 General Education Requirements - Only courses used must be included in the calculation.

 Professional Education Requirements - Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Teaching Field Requirements - Only transfer work used and all work attempted at Athens State College must be included in the calculation.

 Overall—using courses applicable to degree, professional studies courses, and teaching field courses. Overall GPA is the total of all three areas above.
 —Add hours attempted for the three areas.
 —Add quality points for the three areas.
 —Divide hours attempted into quality points.

2. Achieve a minimum grade of "C" in each professional education course and each teaching field course. Courses in which D's and F's are made must be repeated and all attempts are calculated in GPA.

3. Complete the Teacher Education Program within four years from the date of admission.

4. Earn a passing score on a comprehensive exit examination covering the content of the teaching field(s) and professional education. All students completing any education program are required to take the examination.

5. Receive a satisfactory evaluation on the required portfolio. The portfolio will reflect evolving professional growth from the start to the completion of the program. During the final quarter, the candidate will present the portfolio for evaluation.

IMPORTANT NOTICE!!!

The State Department of Education retains the right to deny credit for a course with a prerequisite of admission to teacher education if that course was taken prior to admission to teacher education. Students not admitted to the Teacher Education Program who register for courses that require admission can be withdrawn from the course by the School of Education.

Courses That Require Admission to the Teacher Education Program

Early Childhood Education

ED 361 Measurement and Management
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension
ED 420 Materials and Methods of Teaching Science
ED 423 Materials and Methods of Teaching Social Studies
ED 470 Early Childhood Curriculum
ED 480 Internship in Early Childhood Education

Elementary Education

ED 361 Measurement and Management
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension
ED 420 Materials and Methods of Teaching Science
ED 423 Materials and Methods of Teaching Social Studies
ED 424 Materials and Methods of Teaching Math in Intermediate Grades
ED 472 Elementary School Curriculum
ED 482 Internship in Elementary Education

Learning Disabled Education

ED 333 Teaching Reading in the Content Area
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension
PS 461 Tests and Measurements
ED 488 Internship in N-12

Language Arts, English, Comprehensive Science, Biology, Chemistry, Social Science, History, Political Science,Psychology, Mathematics

ED 333 Teaching Reading in the Content Area
ED 361 Measurement and Management
ED 431 Materials and Methods of Teaching Middle/High School
ED 486 Internship in High School

Physical Education

ED 333 Teaching Reading in the Content Area
PE 401 Tests and Measurements in Physical Education
PE 430 Materials and Methods for Teaching Physical Education in the Elementary School
PE 440 Materials and Methods for Teaching Physical Education in the High School
ED 488 Internship in N-12

Trade and Industry Education

ED 333 Teaching Reading in the Content Area
ED 486 Internship in High School
VE 440 Testing and Evaluation in Vocational Education
VE 470 Practicum - Supervised Work Experience

Internship

1. Students **must** apply to the Director of Internship two quarters prior to registering for Internship. (The application forms are available in the certification office of the School of Education). The internship should be taken the last quarter in attendance after all course work has been successfully completed.

2. The intern shall not be enrolled in course work during the normal operational hours of the school(s) where the internship is being completed. (Limit: One evening or weekend course with permission.)

3. The initial internship requires fifty consecutive full days of attendance at the assigned school(s). A second internship for persons seeking additional certification requires twenty-five full days of attendance at the assigned school(s).

The State Board of Education periodically revises the requirements governing certification in the State of Alabama. Therefore, requirements for degrees leading to certification are subject to change from those published in this Catalog. The student is advised to secure a current curriculum guide from the School of Education Office to ensure that both degree requirements and certification requirements are met.

Anyone convicted of a felony can be denied certification or have certification revoked by the State Superintendent.

Certification

Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities and colleges cannot issue a professional certificate. However, in order to be certified at the professional "B" level, a student must complete an appropriate course of study at a college or university which has been approved by the State Board of Education. When a student completes the course of study, the institution recommends to the State Department of Education that the appropriate certificate be awarded. It is the responsibility of the student to complete the steps for certification recommendation from Athens State College which are as follows:

1. Satisfy the requirements of the Teacher Education Program.
2. Obtain application for certification from the Certification Officer.
3. Provide a $20.00 money order for each level of certification. (Amount subject to state modification; make money order payable to the State Department of Education in Montgomery).
4. Provide a fingerprint card.
5. Provide a release form for background check and a separate $25.00 Money Order made payable to the State Department of Education.
6. Provide the Certification Officer with one copy of an official transcript.

NOTE: Certificates for students who complete certification requirements after September 1 will be dated effective July 1 of the following year.

BACKGROUND CHECK FOR CERTIFICATION APPLICATIONS

Alabama requires all applicants to obtain a state background clearance through a fingerprint review conducted by the Alabama Bureau of Investigation (ABI) unless they hold or have held an Alabama Professional Certificate or Career/Technical Certificate (day trade or health occupations) which was issued on the basis of an application submitted prior to July 1, 1997. The fingerprint card will remain on file with the ABI as long as the certificate or license is valid. If the certificate or license is allowed to lapse, the fingerprint card will remain on file with the ABI no longer than 90 days from the date of its expiration.

Students may choose to be fingerprinted by Athens State campus security for a fee of $5.00 or contact a law enforcement agency in their communities. After fingerprints are taken, the fee for processing the fingerprint card through the appropriate law enforcement agency is $25.00, made payable by separate Money Order or Cashier's Check to the Alabama State Department of Education. This fee is in addition to the $20.00 fee for certification which must also be included in the application packet. The two fees must be paid by separate Money Orders or Cashier's Checks.

TRANSCRIPT EVALUATION

The School of Education will review transcripts for persons seeking initial certification or considering adding areas of endrsement to their certificate. A fee of $15.00 is charged for the review of the first area of endorsement and $5.00 for each additional area. Checks should be made payable to the School of Education, Athens State College. Students who have made application and submitted all required transcripts to Athens State College will not be charged a fee.

Approved Majors

Biology
Chemistry
Comprehensive Science
Early Childhood Education
Elementary Education
English
History
Language Arts
Mathematics
Physical Education
Political Science
Social Science
Special Education (Learning Disabilities)
Trade and Industrial Education-Teacher/Coordinator
Vocational Education - Postsecondary
Vocational Education - Instructor-Staff

Post Graduate Teacher Education Program Planning

A student who holds a baccalaureate degree from an accredited institution may complete certification requirements at Athens State College. In general, this student must meet the same requirements for admission to and exit from the program as a regular undergraduate student. There are several classifications which may be appropriate for this student; consequently, the student must consult the Certification Officer to have a program plan approved before enrolling for a course. Those who plan to apply for a second degree must complete a minimum of 20 quarter hours in the major area(s).

A student who holds an Alabama teacher's certificate may seek to add additional areas of certification endorsement. The Certification Officer will assist the student in program planning to meet the State Department of Education requirements.

Job Placement

It is recommended that each student place a resume' on file with the Athens State College Placement Office prior to graduation.

Support for Beginning Teachers

Athens State College graduates have completed a program which prepares teachers to be:

1. effective communicators,
2. knowledgeable scholars,
3. positive, supportive professionals,

4. resourceful curriculum planners,
5. skilled facilitators of developmental growth,
6. student-centered, reflective instructors,
7. capable classroom managers,
8. competent evaluators, and
9. lifelong learners.

In order to provide support and to assure continued application of and growth in these professional qualities, additional services are available. The School of Education of Athens State College encourages graduates and public school personnel to contact the School for any of the following support services:

1. workshops for beginning teachers,
2. on-going mentorship of beginning teachers,
3. curriculum laboratory resources,
4. one-on-one support conferences,
5. content support from other academic areas,
6. site visits, and
7. a teaching tips column in the School newsletter Teaching, Etc.
8. support Hot Line (205) 233-6539.



EARLY CHILDHOOD EDUCATION

This program is designed for students interested in the education of young children. The focus is upon the nature of learning and development of children ages four through eight. This phase of the teacher preparation program is designed to assist the student in acquiring knowledge, understanding, and skills deemed essential to: (1) teach in kindergarten and primary grades, (2) administer and implement preschool or other early childhood programs, or (3) to pursue graduate study in early childhood and other related specializations.

Bachelor of Science in Education - Early Childhood Education Major (N-3)
MAJOR CODE: 13.1204

Program components for the Bachelor of Science in Education with a major in Early Childhood Education include:

1. Applicable general college requirements (page 19) and the following general education and professional education requirements.

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
Speech	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	15 quarter hours	___ ___ ___
Science (to include both biological and physical)	20 quarter hours	___ ___ ___ ___
Economics	5 quarter hours	___
American History	5 quarter hours	___
Geography	5 quarter hours	___
Government	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS 90 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

During any one quarter, a student may **not** enroll for more than three methods courses.

ED 300 Foundations of Education	5 quarter hours	___
ED 302 Language Development	5 quarter hours	___
ED 303 Professional Education Communication	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 310 Principles of Early Childhood Education	5 quarter hours	___
ED 312 The Child and Society	5 quarter hours	___
ED 320 Children's Literature **(Methods)**	5 quarter hours	___
ED 321 Materials and Methods of Teaching Language Arts	5 quarter hours	___
ED 323 Reading I: Materials and Methods of Teaching Beginning Reading	5 quarter hours	___
ED 324 Teaching Math to the Young Child **(Methods)**	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours	___
ED 420 Materials and Methods of Teaching Science	5 quarter hours	___
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours	___
ED 470 Early Childhood Curriculum **(Methods)**	5 quarter hours	___
ED 480 Internship in Early Childhood Education	15 quarter hours	___ ___ ___
AR 309 Art for Teachers N-6	5 quarter hours	___
MU 451 Music for Teachers N-6	5 quarter hours	___
PE 431 Motor Development and Physical Activity	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS:	115 quarter hours	

4. Students desiring to major both in Early Childhood Education and Elementary Education must meet the course requirements in both programs including an additional five quarter hours of internship.

5. A second major is not required.

ELEMENTARY EDUCATION (1-6)

The program in Elementary Education at Athens State College is designed to assist the student in acquiring the knowledge and skills required of teachers in elementary schools. The program is field oriented in order to provide observation and participation in a wide variety of educational settings with elementary age students. Professional coursework requirements culminate with a ten-week internship.

Bachelor of Science in Education - Elementary Education Major (1-6)
MAJOR CODE: 13.1202

Program components for the Bachelor of Science in Education with a major in Elementary Education include:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
Speech	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	15 quarter hours	___ ___ ___
Science (To include both biological and physical)	20 quarter hours	___ ___ ___ ___
Economics	5 quarter hours	___
American History	5 quarter hours	___
Geography	5 quarter hours	___
Government	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours

TOTAL GENERAL EDUCATION HOURS:	90 quarter hours	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

During any one quarter, a student may **NOT** enroll for more than three methods courses.

ED 300 Foundations of Education	5 quarter hours	___
ED 303 Professional Education Communication	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 312 The Child and Society	5 quarter hours	___
ED 320 Children's Literature (**Methods**)	5 quarter hours	___
ED 321 Materials and Methods of Teaching Language Arts	5 quarter hours	___
ED 323 Reading I: Materials and Methods of Teaching Beginning Reading	5 quarter hours	___
ED 324 Teaching Mathematics to the Young Child (**Methods**)	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours	___
ED 420 Materials and Methods of Teaching Science	5 quarter hours	___
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours	___
ED 424 Materials & Methods of Teaching Mathematics in Intermediate Grades	5 quarter hours	___
ED 472 Elementary School Curriculum (**Methods**)	5 quarter hours	___
ED 482 Internship in Elementary Education	15 quarter hours	___ ___ ___
AR 309 Art for Teachers N-6	5 quarter hours	___
MU 451 Music for Teachers N-6	5 quarter hours	___
PE 430 Materials and Methods of Teaching P.E. in Elementary School	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	110 quarter hours	

4. Students desiring to major both in Elementary Education and Early Childhood Education must meet the course requirements in both programs with an additional five quarter hours of internship.

5. A second major is not required.

MIDDLE SCHOOL ENDORSEMENTS (4-8)

History/English/Biology/Mathematics:

For the student obtaining elementary certification who wishes to add a middle school endorsement (grades 4-8) in **history, English, biology or mathematics,** the following courses are required:

ED 300 Foundations of Education 5 quarter hours___
ED 333 Teaching Reading in the Content Areas 5 quarter hours___
PS 334 Adolescent Psychology 5 quarter hours___
Advisor approved courses from the approved respective teaching field for 7-12 certification 40 quarter hours___
TOTAL 55 quarter hours___

Comprehensive Science

For the student obtaining elementary certification who wishes to add a middle school endorsement in **comprehensive science,** the following courses are required:

ED 300 Foundations of Education 5 quarter hours___
ED 333 Teaching Reading in the Content Areas 5 quarter hours___
PS 334 Adolescent Psychology 5 quarter hours___
Advisor approved courses from the approved teaching field for 7-12 certification. Courses must be selected from each of these areas: (physics, earth & space science, biology, chemistry) .40 quarter hours ... ___
TOTAL 55 quarter hours ___

Language Arts

For the student obtaining elementary certification who wishes to add a middle school endorsement in **language arts,** the following courses are required:

ED 300 Foundations of Education 5 quarter hours___
ED 333 Teaching Reading in the Content Areas 5 quarter hours___
PS 334 Adolescent Psychology 5 quarter hours___
Advisor approved courses from the approved teaching field for 7-12 certification. Courses must be selected from each ofthese areas: (English composition and literature, drama and speech) 40 quarter hours ___
TOTAL 55 quarter hours___

Social Science

For the student obtaining elementary certification who wishes to add a middle school endorsement in **social science,** the following courses are required:

ED 300 Foundations of Education 5 quarter hours___
ED 333 Teaching Reading in the Content Areas 5 quarter hours___
PS 334 Adolescent Psychology 5 quarter hours___
Advisor approved courses from the approved teaching field for 7-12 certification. Courses must be selected from each ofthese areas: (economics, geography, history, political science, sociology or anthropology) **(No psychology)** 40 quarter hours___
TOTAL 55 quarter hours___

NOTE: ... IF THE TEN WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 4-6, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

HIGH SCHOOL EDUCATION

The student who wishes to be certified to teach in high school (grades 7-12) must successfully complete an approved composite major or two majors. The requirements for completing a teacher education program in high school follows:

Bachelor of Science in Education - High School Education Major

Program components for the Bachelor of Science in Education with a major in High School Education include:

1. Applicable general college requirements (pg. 19).
2. General education requirements, professional education requirements, and major requirements.
3. High School Education majors desiring middle school endorsement (grades 4-8) should refer to their respective high school certification requirements for applicable middle school endorsements.

Bachelor of Science in Education - Biology
MAJOR CODE: 13.1205A

1. Applicable general college requirements (pg. 19).

2. A 58-62 quarter hour major, including a minimum of 36 quarter hours of upper division course work, **at least 24 quarter hours of which must be taken at Athens State College.** (Courses taken under the SIR agreement do not constitute upper division course work.) **Independent study courses will not satisfy course requirements for the major or minor.**

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Pre-Calculus	5 quarter hours	___
Survey of Physics (GS 325 or equivalent)	5 quarter hours	___
Introductory chemistry with lab, or CH301, or CH303, or equivalent	5-6 quarter hours	___
One of the following: Biogeography (BI/GO 341) or Physical Geography, World, Regional, or General Geography, Earth Science (GS 302) or Geology, Atmospheric Science (GS 301) or Meteorology	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___
*For a combined total of 5 quarter hours		
TOTAL GENERAL EDUCATION HOURS 70-71 quarter hours		

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

5. **MAJOR REQUIREMENTS:**

*Principles of Biology	5 quarter hours	___
*Plant Biology or General Botany	5 quarter hours	___
*Animal Biology or General Zoology	5 quarter hours	___
BI 301 Cell Structure and Function	6 quarter hours	___
BI 302 Genetics	6 quarter hours	___
BI 303 General Ecology	6 quarter hours	___

Five of the following courses or Faculty Advisor approved electives:

	Human Anatomy and Physiology	5 quarter hours	___
	Microbiology	5 quarter hours	___
	BI 322 Human Genetics	5 quarter hours	___
	BI 341 Biogeography	5 quarter hours	___
	BI 342 Economic Botany	5 quarter hours	___
	BI 410 Biochemistry	5 quarter hours	___
	BI 411 Invertebrate Systematics and Morphology **or** BI 412 Invertebrate Development and Function	6 quarter hours	___
	BI 413 Field Vertebrate Zoology **or** BI 414 Comparative Vertebrate Zoology	6 quarter hours	___
**	BI 420 Ichthyology	5 quarter hours	___
**	BI 421 Herpetology	5 quarter hours	___
	BI 424 Animal Physiology	5 quarter hours	___
	BI 431 Plant Systematics and Morphology **or** BI 432 Plant Development and Function	6 quarter hours	___
	BI 440 Biotechnology	5 quarter hours	___
	BI 441, 442, 443, 444 Special Topics in Biology	5 quarter hours	___
	TOTAL HOURS IN MAJOR	58-61 quarter hours	

***These courses must be completed first.**

**The major may include no more than two electives from among the following courses: Ichthyology, Herpetology, Ornithology, Mammalogy.

6. An approved second teaching major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

7. A minor is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **biology**, the following courses are required:

ED 300 Foundations of Education	5 quarter hours	___
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours	___
ED 420 Materials and Methods of Teaching Science	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
SDE approved courses from the teaching field for 7-12 certification	40 quarter hours	___
TOTAL	60 quarter hours	

NOTE: IF THE TEN WEEK INTERNSHIP DID NOT INCLUDE AT LEAST FIVE WEEKS IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Chemistry
MAJOR CODE: 13.1205B

1. Applicable general college requirements (p.19).

2. A 53-59 quarter hour major; at least four chemistry courses must be taken at Athens State College. Approval of all transfer chemistry credits for advanced standing and approval of program projection by the student's chemistry advisor is required.

3. **GENERAL EDUCATION REQUIREMENTS:**

	English Composition	10 quarter hours	___ ___
	Literature Survey	10 quarter hours	___ ___
	Economics	5 quarter hours	___
	History	5 quarter hours	___
	General Psychology	5 quarter hours	___
	Social Science Elective	5 quarter hours	___
	Physics I (PY 301 or equivalent)	5 quarter hours	___
	Biology	5 quarter hours	___
	Earth or Space Science	5 quarter hours	___
	Speech	5 quarter hours	___
*	Health Education (<u>not</u> First Aid)	1-4 quarter hours	___
*	Physical Education (activity)	1-4 quarter hours	___
	*For a combined total of 5 quarter hours		
	TOTAL GENERAL EDUCATION HOURS	65 quarter hours	

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

MA 303,304 Calculus	10 quarter hours	___ ___
MA 305,306 Intermediate Calculus	10 quarter hours	___ ___
General Chemistry **or** CH 303,304,305 Chemistry I,II,III	15-18 quarter hours	___ ___ ___ ___
CH 311,312,313 Organic Chemistry	15-18 quarter hours	___ ___ ___ ___
CH 324 Analytical Chemistry	6 quarter hours	___
CH 430 Physical Chemistry	6 quarter hours	___

Select **one** of the following:

CH 314 Polymer Science	6 quarter hours	___
CH 413 Biochemistry	5 quarter hours	___
TOTAL HOURS IN MAJOR:	67-74 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

Bachelor of Science in Education - Comprehensive Science
MAJOR CODE: 13.1399

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS	50 quarter hours	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

BIOLOGY*

Principles of Biology	5 quarter hours	___
General Botany	5 quarter hours	___
General Zoology	5 quarter hours	___
BI 301 Cell Structure and Functions	6 quarter hours	___

CHEMISTRY*

CH 303 Chemistry I	5-6 quarter hours	___
CH 304 Chemistry II	5-6 quarter hours	___
CH 305 Chemistry III	6 quarter hours	___
CH 324 Analytic Chemistry	6 quarter hours	___

EARTH SPACE AND SCIENCE

GS 300 Astronomy	5 quarter hours	___
GS 301 Atmospheric Science	5 quarter hours	___
GS 302 Earth Science	5 quarter hours	___
BI 303 General Ecology	6 quarter hours	___

MATHEMATICS

MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
MA 305 Calculus III	5 quarter hours	___
MA 306 Calculus IV	5 quarter hours	___

PHYSICS

PY 301 General Physics (w/Calculus)	5 quarter hours	___
PY 302 General Physics (w/Calculus)	5 quarter hours	___
PY 303 General Physics (w/Calculus)	5 quarter hours	___
PY 305 Introduction to Modern Physics	5 quarter hours	___
TOTAL HOURS IN MAJOR	118-121 quarter hours	

A second major is **not** required.

***In addition, a concentration in either Biology or Chemistry to equal 36 quarter hours is required. This upper level course work will be selected from B.S.Ed. approved courses for either discipline and may be met by Faculty Advisor approved electives.**

For the student obtaining high school certification who wishes a middle school endorsement in **comprehensive science,** the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED 420 Materials and Methods of Teaching Science	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Faculty Advisor approved courses from the State Department of Education approved program. Courses must be selected from each of these areas: Physics, Earth and Space Science, Biology, Chemistry	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP DID NOT INCLUDE AT LEAST FIVE WEEKS IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



Bachelor of Science in Education - English Major
MAJOR CODE: 13.1205C

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

Economics	5 quarter hours	___	
History	5 quarter hours	___	
General Psychology	5 quarter hours	___	
Social Science Elective	5 quarter hours	___	
Mathematics	5 quarter hours	___	
Science (Must include both biological and physical)	15 quarter hours	___	___ ___
Science or Social Science Elective	5 quarter hours	___	
* Health Education (not First Aid)	1- 4 quarter hours	___	
* Physical Education (activity)	1- 4 quarter hours	___	

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS: 50 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___	
ED 305 Computers and Media for Teachers	5 quarter hours	___	
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___	
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___	
ED 361 Measurement and Management	5 quarter hours	___	
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___	
ED 486 Internship in High School Education	15 quarter hours	___	___ ___
PS 334 Adolescent Psychology	5 quarter hours	___	
SE 301 Introduction to the Exceptional Child	5 quarter hours	___	

TOTAL PROFESSIONAL EDUCATION HOURS 55 quarter hours

4. **MAJOR REQUIREMENTS:**

English Composition	10 quarter hours	___	___
Literature Survey	10 quarter hours	___	___
Speech or EH 400	5 quarter hours	___	
EH 312 Dramatic Literature	5 quarter hours	___	
EH 325 Myth, Ritual and Culture	5 quarter hours	___	
EH 320 Grammar for Teachers	5 quarter hours	___	
EH 401 Speech: Conflict Management or EH 402 Oral Interpretation in Speech & Theatre	5 quarter hours	___	
EH 414 History of the English Language	5 quarter hours	___	
EH 425 Shakespeare: The Sonnets and the Plays	5 quarter hours	___	
EH 431 Poetry and Poetics	5 quarter hours	___	
Choose one of the following:	5 quarter hours	___	

EH304 Southern Literature
EH307 Major Authors (Ancient to Renaissance)
EH308 Major Authors (Renaissance through Modern)
EH314 Nineteenth Century British Studies
EH316 American Masterpieces
EH413 Composition for Teachers
EH430 Literature: The Healing Art
EH433 Fiction
EH440 African-American Studies
EH450 Renaissance Literature 1550-1680
EH451 Restoration and Eighteenth Century
EH452 Chaucer and Medieval Literature

TOTAL HOURS IN MAJOR: 65 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

For the student obtaining high school certification who wishes a middle school endorsement in **English,** the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 321 Material and Methods of Teaching Language Arts	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program.	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



Bachelor of Science in Education - History Major
MAJOR CODE: 13.1205D

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (must include both biological and physical)	15 quarter hours	___ ___ ___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1- 4 quarter hours	___
* Physical Education (activity)	1- 4 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	60 quarter hours	

*For a combined total of 5 quarter hours.

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

American History	10 quarter hours	___ ___
Western Civilization	10 quarter hours	___ ___
SS/HY 301 Social Science Research Methods	5 quarter hours	___
HY 302 Alabama History	5 quarter hours	___
American History (advisor approved)	10 quarter hours	___ ___
Non-American History (advisor approved)	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR	50 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

For the student obtaining high school certification who wishes a middle school endorsement in **history,** the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Language Arts Major
MAJOR CODE: 13.1205E

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

Economics	5 quarter hours	___	
History	5 quarter hours	___	
General Psychology	5 quarter hours	___	
Social Science Elective	5 quarter hours	___	
Mathematics	5 quarter hours	___	
Science (Must include both biological and physical)	15 quarter hours	___	___ ___
Electives (content courses)	10 quarter hours	___	___
* Health Education (not First Aid)	1-4 quarter hours	___	
* Physical Education (activity)	1-4 quarter hours	___	

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS: 55 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___	
ED 305 Computers and Media for Teachers	5 quarter hours	___	
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___	
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___	
ED 361 Measurement and Management	5 quarter hours	___	
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___	
ED 486 Internship in High School Education	15 quarter hours	___	___ ___
PS 334 Adolescent Psychology	5 quarter hours	___	
SE 301 Introduction to the Exceptional Child	5 quarter hours	___	

TOTAL PROFESSIONAL EDUCATION HOURS 55 quarter hours

4. **MAJOR REQUIREMENTS:**

English Composition	10 quarter hours	___	___
Literature Survey	10 quarter hours	___	___
Speech	5 quarter hours	___	
EH 303 Journalism I	5 quarter hours	___	
EH 311 Drama Production I	5 quarter hours	___	
EH 312 Dramatic Literature	5 quarter hours	___	
EH 320 Grammar for Teachers	5 quarter hours	___	
EH 400 Speech Communication **or** EH 402 Oral Interpretation in Speech and Theatre	5 quarter hours	___	
EH 401 Speech: Conflict Management	5 quarter hours	___	
EH 403 Journalism II	5 quarter hours	___	
EH 414 History of the English Language	5 quarter hours	___	
EH 425 Shakespeare	5 quarter hours	___	
EH 431 Poetry and Poetics	5 quarter hours	___	
EH 433 Fiction	5 quarter hours	___	
Select two of the following:	10 quarter hours	___	___

EH 304 Southern Literature
EH 307 Major Authors: Ancient to Renaissance
EH 308 Major Authors: Renaissance to Modern
EH 313 Drama Production II
EH 314 Nineteenth Century Studies
EH 316 American Masterpieces
EH 325 Myth, Ritual and Culture
EH 413 Composition for Teachers
EH 430 Literature: The Healing Art
EH 440 African-American Studies
EH 450 Renaissance Literature 1550-1680
EH 451 Restoration and the Eighteenth Century
EH 452 Chaucer and Medieval Literature

TOTAL HOURS IN MAJOR: 90 quarter hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in language arts, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 321 Materials and Methods of Teaching Language Arts	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program. Courses must be selected from each of these areas: English composition and literature, drama, journalism, speech)	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



Bachelor of Science in Education - Mathematics
MAJOR CODE: 13.1205F

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

	English Composition	10 quarter hours	___ ___
	Literature Survey	10 quarter hours	___ ___
	Economics	5 quarter hours	___
	History	5 quarter hours	___
	General Psychology	5 quarter hours	___
	Social Science Elective	5 quarter hours	___
	Biology	5 quarter hours	___
	Physics Survey	5 quarter hours	___
	Chemistry Survey	5 quarter hours	___
	Speech	5 quarter hours	___
*	Health Education (not First Aid)	1-4 quarter hours	___
*	Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS 65 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

MA 303,304 Calculus I/II	10 quarter hours	___ ___
MA 305,306 Calculus III/IV	10 quarter hours	___ ___
MA 314 College Geometry	5 quarter hours	___
MA 441 Special Topics	5 quarter hours	___
CS 301 Introduction to Computers and Computer Systems or BASIC Programming or CS 312 Computer Programming I (Pascal) or CS 330 FORTRAN Programming or equivalent programming course	5 quarter hours	___
Plus five mathematics electives (5 quarter hours each) from the following:	25 quarter hours	___ ___ ___ ___ ___

MA 308 Discrete Mathematics
MA 310 Matrices and Linear Algebra
MA 316 Vector Analysis
MA 320 Modern Algebra
MA 401 Complex Analysis
MA 421 Differential Equations
MA 423 Numerical Analysis
MA 428 Partial Differential Equations
MA 430,431 Theory of Statistics and Probability I, II
MA 450,451 Advanced Calculus I, II
MA 452 Real Analysis

TOTAL HOURS IN MAJOR 60 quarter hours

Students must take at least 35 quarter hours of mathematics courses above MA 306 to fulfill the B.S.Ed. mathematics degree. At least 20 quarter hours of the required 35 quarter hours must be taken at Athens State College. All B.S.Ed. mathematics majors must maintain a 2.5 GPA in mathematics courses taken at Athens State College.

5. **COMPREHENSIVE EXIT EXAM**

Each B.S.Ed. mathematics major must earn a passing score on the mathematics comprehensive exit exam. Developed by the Athens State College Department of Mathematics, this exam is administered by the School of Education. Before a Class B Teaching Certificate is granted, the State Department of Education requires all students completing a B.S.Ed. mathematics major to take and pass the exam.

6. A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **mathematics**, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 424 Materials and Methods of Teaching Mathematics in Intermediate Grades	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program.	40 quarter hours
TOTAL	62 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



Bachelor of Science in Education - Political Science Major
MAJOR CODE: 13.1205G

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
Geography	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS	70 quarter hours	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

PO 301 Social Science Research Methods	5 quarter hours	___
PO 304 Problems of American Government	5 quarter hours	___
PO 308 America and the World	5 quarter hours	___
Political Science Electives	10 quarter hours	___ ___
One of the following:	5 quarter hours	___
PO 303 Comparative State and Urban Government		
PO 305 Alabama Government		
One of the following:	5 quarter hours	___
PO 307 American Constitutional Law		
PO 364 Civil Liberties		
One of the following:	5 quarter hours	___
PO 334 The Middle East		
PO 452 Comparative Political Systems		
One of the following:	5 quarter hours	___
PO 377 Public Administration		
PO 351 Political Sociology		
One of the following:	5 quarter hours	___
PO 320 Introduction to International Commerce		
PO 453 International Politics		
TOTAL MAJOR HOURS	50 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

Bachelor of Science in Education - Social Science
MAJOR CODE: 13.1205H

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
General Psychology	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	55 quarter hours	

*For a combined total of 5 quarter hours.

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

American History	10 quarter hours	___ ___
Western Civilization	10 quarter hours	___ ___
SS 301 Social Science Research Methods	5 quarter hours	___
EC 310 Modern Economics	5 quarter hours	___
EC 320 Introduction to International Commerce	5 quarter hours	___
GO 309 World Regional Geography	5 quarter hours	___
GO 311 Economic Geography	5 quarter hours	___
Geography Elective	5 quarter hours	___
SO 351 Political Sociology	5 quarter hours	___
PO 304 Problems of American Government	5 quarter hours	___
HY 302 Alabama History	5 quarter hours	___
Upper-level Non-American History	5 quarter hours	___
Two of the following:	10 quarter hours	___ ___
HY 304 Colonial and Revolutionary America		
HY 305 Nineteenth Century America		
HY 306 Twentieth Century America		
One of the following:	5 quarter hours	___
PO 303 Comparative State and Urban Government		
PO 305 Alabama Government		
One of the following:	5 quarter hours	___
SO 461 Sociological Theories		
Introduction to Sociology or an approved elective		
One of the following:	5 quarter hours	___
PO 308 America and the World		
PO 453 International Politics		
TOTAL HOURS IN MAJOR	95 quarter hours	

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **social science,** the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program. Course must be selected from each of these areas: (Economics, Geography, History, Political Science, Sociology or Anthropology)	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



SPECIAL EDUCATION (LEARNING DISABILITIES)

The Special Education Program at Athens State College is designed to prepare professionals to work with students across various age levels (N through Grade 12) who have learning disabilities. The program provides pre-service training in preparation for the class "B" certificate.

Bachelor of Science in Education - Learning Disabilities
MAJOR CODE: 13.1001

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	10 quarter hours	___ ___
General Psychology	5 quarter hours	___
Mathematics	10 quarter hours	___ ___
Biology	5 quarter hours	___
Physical Science	5 quarter hours	___
Speech	5 quarter hours	___
Introductory Sociology	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

Electives (Recommend Art and Music courses)	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	85 quarter hours	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 323 Reading I: Materials and Methods of Teaching Beginning Reading	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours	___
ED 488 Internship in N-12 Education	15 quarter hours	___ ___ ___
PS 332 Child Psychology	5 quarter hours	___
PS 334 Adolescent Psychology	5 quarter hours	___
PS 461 Tests and Measurements	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	60 quarter hours	

4. **MAJOR REQUIREMENTS**

ED 302 Language Development	5 quarter hours	___
ED 324 Teaching Math to the Young Child	5 quarter hours	___
PS 406 Physiological Psychology	5 quarter hours	___
SE 310 Learning Disabilities: Theories and Issues	5 quarter hours	___
SE 330 Planning Curriculum and IEP's for Students with Learning Disabilities	5 quarter hours	___
SE 400 Classroom Management and Discipline	5 quarter hours	___
SE 410 Assessment of Exceptional Children	5 quarter hours	___
SE 420 Alternative Instructional Strategies	5 quarter hours	___
SE 430 Advanced Diagnostic and Implementation Strategies	5 quarter hours	___
SE 440 Meeting the Needs of Adolescents with Learning Disabilities	5 quarter hours	___
SE 450 Professional Development Seminar	5 quarter hours	___
SE 470 Parent and Professional Conferencing Techniques	5 quarter hours	___
TOTAL HOURS IN MAJOR:	60 quarter hours	

TOTAL HOURS IN DEGREE: 205 quarter hours

A second major is **not** required.

Special Education Minor

Those students who wish to minor in Special Education may do so through consultation with their advisor and Special Education professor(s). **IT IS UNDERSTOOD THAT THIS MINOR IS TO MEET COLLEGE REQUIREMENTS ONLY AND WILL NOT QUALIFY THE STUDENT TO MEET STATE CERTIFICATION REQUIREMENTS.** The following courses will be required of any student desiring to minor in Special Education.

SE 301	Introduction to the Exceptional Child	5 quarter hours
SE 310	Learning Disabilities: Theories and Issues	5 quarter hours
SE 410	Assessment of the Exceptional Child	5 quarter hours
SE 420	Alternative Instructional Strategies	5 quarter hours

The following courses are suggested as electives

Two should be selected by the student 10 quarter hours

ED 302 Language Development

SE 330 Planning Curriculum and IEP's for Students With Learning Disabilities

SE 440 Meeting the Needs of Adolescents With Learning Disabilities



VOCATIONAL AND TECHNICAL EDUCATION
(Class B, Secondary Professional Certification)
Meets Requirements for State Certification Levels 1-4.

Bachelor of Science in Education - Vocational/Career Technical Education
MAJOR CODE: 13.1320C

1. General and Professional Education Requirements for the degree and applicable general college requirements (p. 19).

2. At least one year compensated work experience in one of the trade and industrial education technologies is required for this degree.

3. Technical Training Credit - Up to 65 quarter hours maximum credit may be awarded to those who have at least seven years of work experience in the past 10 years as a wage earner in a technical enterprise relative to the area in which you plan to teach and possess a high school diploma or the equivalent or be a graduate from an approved postsecondary career/technical training program and have 3 years of work experience within 8 years immediately preceding date of application for a teaching position in a technical enterprise.

4. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Science (To include both biological and physical)	15 quarter hours	___ ___ ___
Economics	5 quarter hours	___
Mathematics	5 quarter hours	___
History	10 quarter hours	___ ___
General Psychology	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of five quarter hours.

TOTAL GENERAL EDUCATION HOURS: 70 quarter hours

5. **PROFESSIONAL EDUCATION REQUIREMENTS:**

* ED 300 Foundations of Education	5 quarter hours	___
* PS 334 Adolescent Psychology	5 quarter hours	___
* SE 305 Special Needs in Career/Technical Education	5 quarter hours	___
* VE 302 History and Principles of Career/Technical Education	5 quarter hours	___
* VE 432 Methods of Teaching Career/Technical Education	5 quarter hours	___
* VE 433 Learning Resources and Technology in Career/Technical Education	5 quarter hours	___

*Students may take only four (20 quarter hours) of the above prior to admission to teacher education.

** ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
** VE 440 Testing and Evaluation in Vocational Education	5 quarter hours	___
** ED 486 Internship in High School Education	15 quarter hours	___ ___ ___

**Requires full admission to teacher education.

TOTAL PROFESSIONAL EDUCATION HOURS: 55 quarter hours

6. **MAJOR REQUIREMENTS:**

EC 348 Labor Economics	5 quarter hours	___
VE 434 Course Development and Evaluation in Career/Technical Education	5 quarter hours	___
VE 435 Industrial and Shop Safety	5 quarter hours	___
VE 436 Vocational Information and Guidance	5 quarter hours	___
VE 439 Career/Technical Student Organizations	5 quarter hours	___
VE 445 Functions of the Coordinator	5 quarter hours	___
VE 438 Classroom/Laboratory Management and Student Leadership Development	5 quarter hours	___
VE 470 Practicum - Supervised Work Experience	5 quarter hours	___
and		
VE 259 Basic Technical Specialty (elective credit)	32-65 quarter hours	___
or VE 279 Transfer Technical Credit	32-65 quarter hours	___
TOTAL HOURS IN MAJOR:	72-105 quarter hours	

VOCATIONAL AND TECHNICAL EDUCATION
(No Class B Certification)
Meets Requirements for State Certification, Levels 1-4.

Bachelor of Science in Education - Vocational/Career Technical Education
MAJOR CODE: 13.1320A

The School of Education offers a program designed to prepare instructors to serve in the trade and industrial areas of instruction in technical colleges, institutes, military installations and schools. Admission to the program is dependent upon the student's validation of an acceptable trade or technology as noted by the Department of Labor Job Code. A student who does not possess such technology may not enter the program. These programs do not lead to Class B, Secondary Professional Certification, but do meet the requirements for state certification levels 1-4.

1. Applicable general college requirements (p. 19).

2. Technical training (up to 65 quarter hours maximum credit.) Work experience credit may require validation by a state approved examination or another comparable examination of competency.

3. **GENERAL COLLEGE REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
Science (One may be an approved Computer Science)	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	10 quarter hours	___ ___
Sociology	5 quarter hours	___
Speech	5 quarter hours	___
Literature	10 quarter hours	___ ___
Social Science	5 quarter hours	___
Psychology	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	70 quarter hours	

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
PS 334 Adolescent Psychology **or** PS 335 Adult Psychology	5 quarter hours	___
SE 305 Special Needs in Career/Technical Education	5 quarter hours	___
VE 302 Principles of Career/Technical Education	5 quarter hours	___
VE 432 Methods of Teaching Career/Technical Education	5 quarter hours	___
VE 433 Learning Resources and Technology in Career/Technical Education	5 quarter hours	___
VE 434 Course Development and Evaluation in Career/Technical Education	5 quarter hours	___
VE 435 Industrial and Shop Safety	5 quarter hours	___
VE 438 Classroom/Laboratory Management and Student Leadership Development	5 quarter hours	___
VE 439 Career/Technical Student Organizations	5 quarter hours	___
VE 483,484,485 Practicum in Teaching Vocational and Technical Education (In-service) **or**		
VE 487 Internship in Vocational and Technical Education (Pre-Service)	15 quarter hours	___ ___ ___
TOTAL PROFESSIONAL EDUCATION HOURS	65 quarter hours	

5. At least seven years of work experience in the past ten years as a wage earner in a technical enterprise relative to the area in which you plan to teach.

Bachelor of Science in Education - Military Instructor/Staff Development in Vocational/Career Technical Education

MAJOR CODE: 13.1320B

Meets Requirements for State Certification, Levels 1 & 2.

Program components for the Bachelor of Science degree with an emphasis in Vocational and Technical Education include:

1. Applicable general college requirements (p. 19).

2. Technical Training (up to 74 quarter hours maximum credit). Work experience credit may require validation by a state approved examination or another comparable examination of competency.

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
Science (One may be an approved Computer Science)	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	10 quarter hours	___ ___
Sociology	5 quarter hours	___
Speech	5 quarter hours	___
Literature	10 quarter hours	___ ___
Social Science	5 quarter hours	___
Psychology	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	70 quarter hours	

4. **TECHNICAL TRAINING REQUIREMENTS:**

Completion of one or more of the technical courses listed in the Evaluation of Educational Experience in the Armed Services published by the American Council on Education such as the examples listed below. Please check with representatives from Athens State for a complete list:

241E	SSM Sergeant
214E	SSM Pershing
222B	SSM Nike
911A	Nuclear Weapons
21L20	Pershing
22L20	Nike
23N20	Nike
27E20	Wire Guided
241C	SAM Hawk
22K20	Hawk
23Q20	Hawk
24J20	Hawk
24K20	Hawk
24L20	Hawk
27B20	Land Combat
27E20	Light Air Defense

5. **VOCATIONAL EDUCATION COURSES REQUIRED:**

ED 300 Foundations of Education	5 quarter hours	___
PS 334 Adolescent Psychology **or** PS 335 Adult Psychology	5 quarter hours	___
SE 305 Special Needs in Career/Technical Education	5 quarter hours	___
VE 302 Principles of Career/Technical Education	5 quarter hours	___
VE 432 Methods of Teaching Career/Technical Education	5 quarter hours	___
VE 433 Learning Resources and Technology in Career/Technical Education	5 quarter hours	___
VE 434 Course Development and Evaluation in Career/Technical Education	5 quarter hours	___
VE 435 Industrial and Shop Safety	5 quarter hours	___
VE 438 Classroom/Laboratory Management and Student Leadership Development	5 quarter hours	___
VE 440 Testing and Evaluation in Vocational Education	5 quarter hours	___
VE 446 Individualizing Instruction in the Vocational & Technical Programs	5 quarter hours	___
VE 483, 484, 485 Practicum in Teaching Voc. and Tech. Ed (Select 1)	5 quarter hours	___

PHYSICAL EDUCATION

The Physical Education curriculum at Athens State College consists of courses which meet the requirements of the State Department of Education for Class "B" Teacher Certification for the professional programs in Physical Education (N-12). A Bachelor of Science (non-certification) degree is also offered.

Bachelor of Science in Physical Education (Non-Teaching Degree)
MAJOR CODE: 13.9999A

A major in Physical Education with a Bachelor of Science Degree responds to a need to prepare professionals with expertise in fitness, sports and recreation who become employed in such areas as business, industry, service agencies, correctional institutions and hospitals.

Program components for the Bachelor of Science in Physical Education degree include:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Humanities Elective	5 quarter hours	___
Biology	10 quarter hours	___ ___
Physical Science	5 quarter hours	___
Mathematics	5 quarter hours	___
Speech	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	65 quarter hours	

3. **MAJOR REQUIREMENTS:**

Introduction to Physical Education	5 quarter hours	___
Personal and Community Health	5 quarter hours	___
Emergency First Aid	5 quarter hours	___
Human Anatomy and Physiology	5 quarter hours	___
Physical Education Activity (3 different activity courses)	5 quarter hours	___
PE 320 Analysis of Team Sports	5 quarter hours	___
PE 321 Analysis of Gym/Track/Field	5 quarter hours	___
PE 322 Analysis of Individual Sports	5 quarter hours	___
PE 323 Analysis of Rhythms and Aquatics	5 quarter hours	___
PE 325 Kinesiology	5 quarter hours	___
PE 326 History and Principles of Physical Education	5 quarter hours	___
PE 327 Physiology of Exercise	5 quarter hours	___
PE 333 Care and Prevention of Athletic Injuries	5 quarter hours	___
PE 352 Basic CPR Instructor's Course (or advisor approved 300 or 400-level course)	5 quarter hours	___
PE 355 Health Related Fitness and Nutrition	5 quarter hours	___
PE 400 Organization and Administration of Physical Education	5 quarter hours	___
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours	___
PE 431 Motor Development and Physical Activity	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
PS 334 Adolescent Psychology	5 quarter hours	___
PS 335 Adult Psychology	5 quarter hours	___
SO 471 Aging in a Mass Society	5 quarter hours	___
PE 480 Internship in Physical Education	15 quarter hours	___ ___ ___
Four courses, 300 level or above, to be taken from the following areas: Business, psychology, sociology or computer science.	20 quarter hours	___ ___ ___ ___
TOTAL MAJOR REQUIREMENTS	145 quarter hours	
TOTAL DEGREE REQUIREMENTS	210 quarter hours	

A minor is not required.

Bachelor of Science in Education - Physical Education Major
N-12 Certification
MAJOR CODE: 13.1205I

Program components for the Bachelor of Science in Education degree with a major in Physical Education, N-12 certification, include:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Human Anatomy and Physiology	5 quarter hours	___
Biology	5 quarter hours	___
Physical Science	5 quarter hours	___
Mathematics	5 quarter hours	___
Speech	5 quarter hours	___
Biology Elective	5 quarter hours	___
TOTAL GENERAL EDUCATION REQUIREMENTS	70 quarter hours	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 333 Teaching Reading in the Content Area	5 quarter hours	___
ED 488 Internship in N-12 Education	15 quarter hours	___ ___ ___
PE 401 Measurement and Evaluation of Physical Education	5 quarter hours	___
PE 430 Materials and Methods of Teaching P.E. in the Elementary School	5 quarter hours	___
PE 440 Materials and Methods of Teaching Physical Education in High School	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION REQUIREMENTS	60 quarter hours	

4. **MAJOR REQUIREMENTS:**

Introduction to Physical Education **or**		
PE 301 Coaching Theory and Officiating	5 quarter hours	___
Personal and Community Health	5 quarter hours	___
Emergency First Aid	5 quarter hours	___
Physical Education Activity (At least 3Different Activity Courses)	5 quarter hours	___
PE 320 Analysis of Team Sports	5 quarter hours	___
PE 321 Analysis of Gym/Track/Field	5 quarter hours	___
PE 322 Analysis of Individual Sports	5 quarter hours	___
PE 323 Analysis of Rhythms and Aquatics	5 quarter hours	___
PE 325 Kinesiology	5 quarter hours	___
PE 326 History and Principles of Physical Education	5 quarter hours	___
PE 327 Physiology of Exercise	5 quarter hours	___
PE 333 Care and Prevention of Athletic Injuries	5 quarter hours	___
PE 350 Adaptive Physical Education and Sports	5 quarter hours	___
PE 355 Health-Related Fitness and Nutrition	5 quarter hours	___
PE 400 Organization and Administration of Physical Education	5 quarter hours	___
PE 431 Motor Development and Physical Activity	5 quarter hours	___
TOTAL MAJOR REQUIREMENTS	80 quarter hours	

TOTAL DEGREE REQUIREMENTS	210 quarter hours

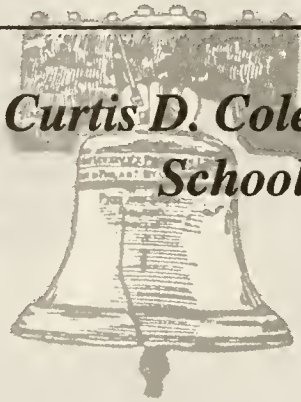
A second major is **not** required.



School of Humanities & Social Sciences



Founders Hall



Curtis D. Coleman, D.Min.
School Dean



ACADEMIC UNIT	DEPARTMENT	MAJOR OR MINOR	B.A.	B.S	B.S.Ed.	MINOR
HUMANITIES	Art	Art	*			*
	English	English	*		*	*
		Language Arts			*	
	Music	Music				*
	Religion & Philosophy	Religion	*			*
		Religion & Philosophy	*			*
SOCIAL SCIENCES	Social Science	Social Science			*	
	History	History	*		*	*
	Justice Studies	Justice Studies		*		*
	Political Science	Political Science	*	*	*	*
	Public Safety	Public Safety Admin.		*		
BEHAVIORAL SCIENCES	Psychology	Psychology	*	*		*
	Behavioral Science	Behavioral Science		*		
	Sociology	Sociology	*	*		*
INTERDISCIPLINARY		Liberal Studies		*		

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Curtis D. Coleman, D. Min., School Dean

Humanistic content and humanistic methods are emphasized in the courses constituting the Humanities discipline. Particular attention is given to the study of language, to the application of the humanities to the human environment, and to the relevance of the humanities to current conditions of national life.

The following academic departments are included within the School of Humanities and Social Sciences: Behavioral Sciences (Psychology, Sociology, Behavioral Science); Humanities (Art, English, Humanities, Music, Religion and Philosophy); Social Sciences (History, Justice Studies, Political Science, Public Safety Administration, Geography and Anthropology).

It is the student's responsibility to comply with the requirements for a particular major. Alterations of a student's curriculum are not permitted without prior approval of the faculty advisor, the department coordinator, School Dean, and the Dean of Academic Affairs.

For each degree program in the School of Humanities and Social Sciences, the maximum credits allowed for each major discipline is twenty-one (21) quarter hours beyond the minimum hours specified for the major.

HUMANITIES

The Humanities department offers programs in art, drama, English, music, religion, and philosophy. Majors leading to the Bachelor of Arts degree are offered in all disciplines except drama and music. Majors are offered in English and language arts leading to the Bachelor of Science in Education degree.

The Humanities Department:

1. provides a knowledge base conducive to self growth and enriching experiences in the visual arts.
2. provides the ability to encompass theory, practice, and interpretation of written and oral communications.
3. engages the intelligence, excites the imagination, improves scholarship and increases enjoyment of literature and language.
4. provides students with the educational foundation and research abilities that will prepare them for graduate study.
5. develops an appreciation of our cultural heritage and an understanding of our world.

Approved Humanities Electives

Only those art, drama, English, humanities, music, religion and philosophy courses marked by an asterisk (*) in the catalog course description will serve as the Humanities electives required for the Bachelor of Arts or the Bachelor of Science programs.

ART (AR)

The Bachelor of Arts degree in art at Athens State College certifies the completion of major study in the visual arts, which has been taken as an integral part of a general liberal arts degree program. The degree implies study in depth of a number of studio and art history courses.

The self-growth of artists is a primary goal of this program. Preparation for graduate studies in visual arts for majors is another important aspect of this study. Each student will receive careful consideration of individual needs and conscientious direction in planning an appropriate avenue of study within the program. The senior majors exhibition culminates the study.

Additionally, the department offers enrichment courses for non-art majors, electives for the continued growth of artists, required art education courses and required humanities electives.

Bachelor of Arts - Art Major

MAJOR CODE: 50.0701

1. Applicable general college requirements (p. 19).
2. A minimum of seventy-eight quarter hours of art coursework, at least twenty-five quarter hours of which must be taken at Athens State College.
3. At least 30 hours of coursework in the major must be upper-division.

4. **GENERAL COLLEGE REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL COLLEGE HOURS:	80 quarter hours	

5. **MAJOR REQUIREMENTS:**

AR 312 Figure Drawing	5 quarter hours	___
+ AR 330 or AR 331 Photography I or Photography II	5 quarter hours	___
AR 418 Art Studio	5 quarter hours	___
#AR 419, AR 420 Art Studio, or AR 404, 405 Art Studio in Photography, or AR 406, 407 Art Studio in Graphic Design	10 quarter hours	___ ___
AR 423 History of Modern Art	5 quarter hours	___
AR 424 Late Modern Art history	5 quarter hours	___
AR 430 Advanced Drawing and Design **or** AR 410 Layout and Design	5 quarter hours	___
AR 402 Portfolio and Exhibition	1 quarter hours	___
AR 403 Directed Studies in Art Research	2 quarter hours	___
Electives in Art	35 quarter hours	___ ___ ___ ___ ___ ___ ___
TOTAL HOURS IN MAJOR:	78 quarter hours	

+Students with emphasis in photography must take AR330 and AR331. Students with the A.A. or A.S. degree and photography experience, with the permission of the instructor, may elect to skip AR330.

#Students may elect to take art studios in photography and in graphics, in painting and photography, or in painting and graphics with the permission of their advisor and the course instructor.

6. All students declaring art as a major or minor will be required to demonstrate proficiency in drawing, design, and knowledge of art history before being admitted to the program. A student seeking admission to the program must submit a portfolio to the department and be interviewed by the art faculty. If the faculty finds inadequacies in the student's preparation and does not feel that the student is adequately prepared to do upper division work, then remedial courses may be assigned.

7. A minor is required. Students with emphasis in photography or graphic design are encouraged to consider a business minor. Electives in marketing and advertising are recommended and may count as art electives.

8. All students will be required to have an exhibit of their work on campus during their final quarter before graduation.

Art Minor

Art minors should notify a member of the art faculty of their intentions as soon as the art minor is declared. A minor in art consists of thirty quarter hours of art coursework, including the following courses or their equivalent:

AR 312 Figure Drawing	5 quarter hours
AR 423 History of Modern Art	5 quarter hours
AR 424 Late Modern Art History	5 quarter hours
AR 430 Advanced Drawing and Design or AR 410 Layout and Design	5 quarter hours
Art Electives	10 quarter hours

ENGLISH (EH)

English as an academic field encompasses both theory and practice in the reading and interpreting of literature as well as in written and oral communication. All courses are designed to engage the intelligence, excite the imagination, improve scholarship, and increase the enjoyment of literature and language. Appropriate transferred courses may be substituted, when so evaluated, for listed courses. It is recommended that EH 325 Myth, Ritual and Culture be taken in the course of study. HU 330, Landmarks of Civilization is recommended for humanities elective.

Bachelor of Arts - English Major
MAJOR CODE: 23.0101

1. Applicable general college requirements (p. 19).

2. At least sixty quarter hours of English coursework.

3. **GENERAL EDUCATION REQUIREMENTS:**

History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Natural Science (May include one computer science elective)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	60 quarter hours	

4. **MAJOR REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Speech	5 quarter hours	___
EH 325 Myth, Ritual and Culture	5 quarter hours	___
EH 414 History of the English Language	5 quarter hours	___
EH 431 Poetry and Poetics	5 quarter hours	___
Choose any four of the following:	20 quarter hours	___ ___ ___ ___
EH 304 Southern Literature		
EH 307 Major Authors (Ancient to Renaissance)		
EH 308 Major Authors (Renaissance to Modern)		
EH 312 Dramatic Literature		
EH 314 Nineteenth Century British Studies		
EH 316 American Masterpieces		
EH 320 Grammar for Teachers		
EH 413 Composition Instruction for Teachers (Prospective Teachers Only)		
EH 425 Shakespeare		
EH 430 Literature the Healing Art		
EH 433 Fiction		
EH 440 African-American Studies		
EH 450 Renaissance Literature 1550-1680		
EH 451 Restoration and Eighteenth Century		
EH 452 Chaucer and Medieval Literature		
TOTAL HOURS IN MAJOR:	60 quarter hours	

5. A minor is required.

English Minor

A minor in English consists of thirty-five quarter hours of English coursework including the following courses or their equivalent:

English Composition	10 quarter hours
Literature Survey	10 quarter hours
Electives in English	15 quarter hours

Bachelor of Science in Education - English Major
MAJOR CODE: 13.1205C

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
Science or Social Science Elective	5 quarter hours	___
* Health Education (not First Aid)	1 - 4 quarter hours	___
* Physical Education (activity)	1 - 4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS: 50 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___

TOTAL PROFESSIONAL EDUCATION HOURS 55 quarter hours

4. **MAJOR REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Speech or EH 400	5 quarter hours	___
EH 312 Dramatic Literature	5 quarter hours	___
EH 325 Myth, Ritual and Culture	5 quarter hours	___
EH 320 Grammar for Teachers	5 quarter hours	___
EH 401 Speech: Conflict Management or EH 402 Oral Interpretation in Speech & Theatre	5 quarter hours	___
EH 414 History of the English Language	5 quarter hours	___
EH 425 Shakespeare: The Sonnets and the Plays	5 quarter hours	___
EH 431 Poetry and Poetics	5 quarter hours	___
Choose one of the following:	5 quarter hours	___

EH304 Southern Literature
EH307 Major Authors (Ancient to Renaissance)
EH308 Major Authors (Renaissance through Modern)
EH314 Nineteenth Century British Studies
EH316 American Masterpieces
EH413 Composition for Teachers
EH430 Literature: The Healing Art
EH433 Fiction
EH440 African-American Studies
EH450 Renaissance Literature 1550-1680
EH451 Restoration and Eighteenth Century
EH452 Chaucer and Medieval Literature

TOTAL HOURS IN MAJOR: 65 quarter hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

For the student obtaining high school certification who wishes a middle school endorsement in **English,** the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 321 Material and Methods of Teaching Language Arts	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



Bachelor of Science in Education - Language Arts Major
MAJOR CODE: 13.1205E

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
Electives (content courses)	10 quarter hours	___ ___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS: 55 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Speech	5 quarter hours	___
EH 303 Journalism I	5 quarter hours	___
EH 311 Drama Production 1	5 quarter hours	___
EH 312 Dramatic Literature	5 quarter hours	___
EH 320 Grammar for Teachers	5 quarter hours	___
EH 400 Speech Communication **or** EH 402 Oral Interpretation in Speech and Theatre	5 quarter hours	___
EH 401 Speech: Conflict Management	5 quarter hours	___
EH 403 Journalism II	5 quarter hours	___
EH 414 History of the English Language	5 quarter hours	___
EH 425 Shakespeare	5 quarter hours	___
EH 431 Poetry and Poetics	5 quarter hours	___
EH 433 Fiction	5 quarter hours	___
Select two of the following:	10 quarter hours	___ ___

EH 304 Southern Literature
EH 307 Major Authors: Ancient to Renaissance
EH 308 Major Authors: Renaissance to Modern
EH 313 Drama Production II
EH 314 Nineteenth Century Studies
EH 316 American Masterpieces
EH 325 Myth, Ritual and Culture
EH 413 Composition for Teachers
EH 430 Literature: The Healing Art
EH 440 African-American Studies
EH 450 Renaissance Literature 1550-1680
EH 451 Restoration and the Eighteenth Century
EH 452 Chaucer and Medieval Literature

TOTAL HOURS IN MAJOR: 90 quarter hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in language arts, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 321 Materials and Methods of Teaching Language Arts	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program. Courses must be selected from each of these areas: English composition and literature, drama, journalism, speech)	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



MUSIC

The Music curriculum serves three primary objectives: (1) to offer courses and musical experiences leading to a minor for Bachelor of Arts and Bachelor of Science degree students; (2) to offer electives for students who desire music or humanities elective credit; and (3) to enrich the cultural life of the college and the community.

Music Minor

The minor in Music requires thirty quarter hours credit, at least fifteen quarter hours of which must be taken at Athens State College. The thirty hours must include the following courses or their equivalent:

MU 300/301/302 Music Theory (3 quarter hours each)	9 quarter hours
MU 304/305/306 Aural Musicianship (1 quarter hour each)	3 quarter hours
MU 321 Music Literature	5 quarter hours
Applied Music (Piano and/or Voice)	1-2 quarter hours each
Music Ensemble at Athens State College each quarter (for credit or non-credit)	1 quarter hour each

***Prospective music minors should meet with music professor for advising prior to registration for their first quarter at Athens State College.**

APPLIED MUSIC
(Permission of Professor is Required)

MU 371 - O	372 - O	373 - O	Private Organ	1 quarter hour
MU 471 - O	472 - O	473 - O	Private Organ	1 quarter hour
MU 371 - P	372 - P	373 - P	Private Piano	1 quarter hour
MU 471 - P	472 - P	473 - P	Private Piano	1 quarter hour
MU 371 - V	372 - V	373 - V	Private Voice	1 quarter hour
MU 471 - V	472 - V	473 - V	Private Voice	1 quarter hour
MU 381 - O	382 - O	383 - O	Private Organ	2 quarter hour
MU 481 - O	482 - O	483 - O	Private Organ	2 quarter hour
MU 381 - P	382 - P	383 - P	Private Piano	2 quarter hour
MU 481 - P	482 - P	483 - P	Private Piano	2 quarter hour
MU 381 - V	382 - V	383 - V	Private Voice	2 quarter hour
MU 481 - V	482 - V	483 - V	Private Voice	2 quarter hour

One half-hour weekly	1 quarter hour credit
One hour lesson weekly	2 quarter hours credit

(With professor's approval, these may be repeated for credit)

MUSIC ENSEMBLE
(Except Summer)

MU 341 College Singers	1 quarter hour
MU 343 Choral Union (permission of professor required)	1 quarter hour
MU 345 Selected Chorus	1 quarter hour
MU 346 Instrumental Ensemble	1 quarter hour

RELIGION (RE) AND PHILOSOPHY (PH)

The Department of Religion and Philosophy has two basic purposes:

1. To make its courses informative and enriching for all students who wish to know more of the Judaeo-Christian tradition and other major religions of the world and who are interested in relating life to ultimate religious and philosophical concerns.

2. To give students an educational foundation that will prepare them for successful graduate study or for effective professional careers in vocations related to religion and philosophy.

Approved Humanities Electives

Only those Religion and Philosophy courses marked by an asterisk (*) will serve as humanities electives required for the Bachelor of Arts or the Bachelor of Science degree. Additional humanities electives, also marked by an asterisk (*), appear in the art, English and music sections of this catalog under course descriptions.

Bachelor of Arts - Religion Major
MAJOR CODE: 38.0201A

1. Applicable general college requirements (p. 19).

2. A sixty quarter hour major, including forty quarter hours of upper division courses, twenty-five quarter hours of which must be taken at Athens State College.

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (College Algebra or the equivalent)	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	80 quarter hours	

4. **MAJOR REQUIREMENTS:**

RE 301 Major Religions of the World	5 quarter hours	___
RE 320 Introduction to the **Old Testament**	5 quarter hours	___
RE 321 Introduction to the **New Testament**	5 quarter hours	___
RE 327 Sociology of Religion	5 quarter hours	___
RE 335 History of Christianity	5 quarter hours	___
RE 351 Christian Thought Today	5 quarter hours	___
RE 403 Religion in Life	5 quarter hours	___
RE 409 Christian Thought in Early Centuries	5 quarter hours	___
PH 301 Introduction to Philosophy	5 quarter hours	___
Electives in Religion	15 quarter hours	___ ___ ___

TOTAL HOURS IN MAJOR: 60 quarter hours

5. RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 **New Testament** Greek for Beginners I and II will not apply toward the major.

6. Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward humanities or social science elective requirements, and will not apply toward the major.

A minor is required.

Bachelor of Arts - Religion and Philosophy Major

MAJOR CODE: 38.0201B

1. Applicable general college requirements (p. 19).

2. A forty-five quarter hour major, including forty quarter hours of upper division courses, twenty-five quarter hours of which must be taken at Athens State College. At least twenty quarter hours must be taken in each discipline.

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	80 quarter hours	

4. **MAJOR REQUIREMENTS:**

PH 301 Introduction to Philosophy	5 quarter hours	___
PH 312 Logic	5 quarter hours	___
PH 321 History of Philosophy I	5 quarter hours	___
PH 322 History of Philosophy II	5 quarter hours	___
PH 325 Philosophy of Religion	5 quarter hours	___
RE 320 Introduction to the **Old Testament**	5 quarter hours	___
RE 321 Introduction to the **New Testament**	5 quarter hours	___
Electives in Religion	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR:	45 quarter hours	

5. RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 **New Testament** Greek for Beginners I and II will not apply toward the major.

6. Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward humanities or social science elective requirements, and will not apply toward the major.

A minor is required.

Religion and/or Philosophy Minor

Thirty hours of Religion and/or Philosophy coursework constitutes a minor. RE 330/331 Biblical Hebrew Grammar I and II and RE 340/341 **New Testament** Greek for Beginners I and II will not apply toward a minor.

Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward humanities or social science elective requirements, and will not apply toward the minor.

Bachelor of Science in Education - Social Science
MAJOR CODE: 13.1205H

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
General Psychology	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS	55 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

American History	10 quarter hours	___ ___
Western Civilization	10 quarter hours	___ ___
SS 301 Social Science Research Methods	5 quarter hours	___
EC 310 Modern Economics	5 quarter hours	___
EC 320 Introduction to International Commerce	5 quarter hours	___
GO 309 World Regional Geography	5 quarter hours	___
GO 311 Economic Geography	5 quarter hours	___
Geography Elective	5 quarter hours	___
SO 351 Political Sociology	5 quarter hours	___
PO 304 Problems of American Government	5 quarter hours	___
HY 302 Alabama History	5 quarter hours	___
Upper-level Non-American History	5 quarter hours	___
Two of the following:	10 quarter hours	___ ___
HY 304 Colonial and Revolutionary America		
HY 305 Nineteenth Century America		
HY 306 Twentieth Century America		
One of the following:	5 quarter hours	___
PO 303 Comparative State and Urban Government		
PO 305 Alabama Government		
One of the following:	5 quarter hours	___
SO 461 Sociological Theories		
Introduction to Sociology or an approved elective		
One of the following:	5 quarter hours	___
PO 308 America and the World		
PO 453 International Politics		
TOTAL HOURS IN MAJOR	95 quarter hours	

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in social science, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program. Course must be selected from each of these areas: economics, geography, history, political science, sociology or anthropology	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



ANTHROPOLOGY (AN)

A degree in anthropology is not offered at Athens State College. Any anthropology course may be taken as a social science elective.

GEOGRAPHY (GO)

A degree in geography is not offered at Athens State College. Any geography course may be taken as a social science elective.

HISTORY (HY)

The history faculty seeks to develop in its students an appreciation of our cultural heritage, an understanding of the world in which we live, and an awareness of the future. It strives to develop, in its majors, the research abilities necessary for graduate work.

Through courses of interest to the non-major it makes the student aware of the cultural legacy from Europe, England, and the United States and affords an opportunity to study other areas of the world.

Bachelor of Arts - History Major

MAJOR CODE: 45.0801

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ __
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	80 quarter hours	

3. **MAJOR REQUIREMENTS:**

Introductory level courses (100-200):		
Western Civilization	10 quarter hours	___ ___
Survey of American History	10 quarter hours	___ ___
300 and 400 level courses:		
HY/SS 301 Social Science Research Methods	5 quarter hours	___
American History	15 quarter hours	___ ___ ___
European History	15 quarter hours	___ ___ ___
Non-Western History	10 quarter hours	___ ___
TOTAL MAJOR HOURS:	65 quarter hours	

4. A minor is required.

5. The student should realize that for graduate school a reading knowledge of one or two languages is generally required.

Bachelor of Science in Education - History Major
MAJOR CODE: 13.1205D

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (must include both biological and physical)	15 quarter hours	___ ___ ___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS	60 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

American History	10 quarter hours	___ ___
Western Civilization	10 quarter hours	___ ___
SS/HY 301 Social Science Research Methods	5 quarter hours	___
HY 302 Alabama History	5 quarter hours	___
American History (advisor approved)	10 quarter hours	___ ___
Non-American History (advisor approved)	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR	50 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

For the student obtaining high school certification who wishes a middle school endorsement in history, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED 423 Materials and Methods of Teaching Social Science	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program	40 quarter hours
TOTAL	60 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

JUSTICE STUDIES (JS)

The Justice Studies program is planned to present and enhance student opportunities in the criminal justice field relating to a wide range of professions involved with criminal law-related institutions. These opportunities include professional roles in law enforcement and correctional administration, security positions in private industry, judicial administration, and probation and parole. Justice Studies is also an acceptable pre-law curriculum for most law schools.

Students pursuing degrees in Justice Studies will be able to apply knowledge attained about criminal law and processes, theoretical concepts of crime causation and control, and will acquire competency in reading and understanding research regarding management practices and policymaking within criminal justice agencies. Justice Studies students will have the opportunity to apply technical knowledge of criminal justice agencies and processes, and administrative skills in an internship which allows for varied learning experiences in actual agency settings.

Bachelor of Science - Justice Studies Major
MAJOR CODE: 43.0104

Program components of the Bachelor of Science in Justice Studies Major include the following

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___
.....		___ ___
Social Science Electives	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	70 quarter hours	

3. **MAJOR REQUIREMENTS:**

JS/PO 300 Criminal Justice System	5 quarter hours	___
JS 301 Criminal Justice Process	5 quarter hours	___
JS/PO 302 Criminal Law	5 quarter hours	___
JS/HY 336 History of Criminal Justice	5 quarter hours	___
PSA/PO 377 Public Administration	5 quarter hours	___
JS 400 Law Enforcement in America	5 quarter hours	___
JS/SO 401 Adult Corrections	5 quarter hours	___
JS/SO 452 Advanced Criminology	5 quarter hours	___
JS/PO/PSA 455 Ethics for Public Administrators	5 quarter hours	___
JS/PSA 465 Public Safeety Administration Internship	5 quarter hours	___
Justice Studies Electives	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR: .	60 quarter hours	

4. A minor is not required.

5. Free electives (Must include no more than 21 quarter hours in Justice Studies) 62 quarter hours ___ ___ ___ ___

___ ___ ___ ___ ___ ___ ___ ___ ___

6. TOTAL MINIMUM HOURS FOR DEGREE 192 quarter hours

Justice Studies Minor

A minor in Justice Studies requires the completion of thirty quarter hours of coursework to consist of the following:

JS 300 Criminal Justice System	5 quarter hours
JS 301 Criminal Justice Process	5 quarter hours
JS 302 Criminal Law	5 quarter hours
JS 452 Advanced Criminology	5 quarter hours
Justice Studies electives	10 quarter hours

POLITICAL SCIENCE (PO)

Political Science prepares students for careers in law, teaching, and public administration. The Bachelor of Arts degree requires a minor in another field. The Bachelor of Science degree does not require a minor. The Bachelor of Science in Education degree is available to students who want to teach government in Grades 7 - 12.

Bachelor of Arts - Political Science Major
MAJOR CODE: 45.1001A

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS: .	80 quarter hours	

3. **MAJOR REQUIREMENTS:**

American Government **or** PO 304 Problems of American Government	5 quarter hours	___
PO 303 Comparative State and Urban Government **or** PO 305 Alabama Government	5 quarter hours	___
PO 307 American Constitutional Law **or** PO 364 Civil Liberties	5 quarter hours	___
PO 308 America and the World	5 quarter hours	___
PO 351 Political Sociology	5 quarter hours	___
PO 377 Public Administration	5 quarter hours	___
PO 453 International Politics	5 quarter hours	___
PO 465 Senior Research Project	5 quarter hours	___
Two Electives in Political Science	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR:	50 quarter hours	

4. An approved minor is required.

Bachelor of Science - Political Science Major
MAJOR CODE: 45.1001B

1. Applicable general requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Sciences (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	70 quarter hours	

3. **MAJOR REQUIREMENTS:**

American Government **or** PO 304 Problems of American Government	5 quarter hours	___
PO 303 Comparative State and Urban Government **or** PO 305 Alabama Government	5 quarter hours	___
PO 307 American Constitutional Law **or** PO 364 Civil Liberties	5 quarter hours	___
PO 308 America and the World	5 quarter hours	___
PO 351 Political Sociology	5 quarter hours	___
PO 377 Public Administration	5 quarter hours	___
PO 453 International Politics	5 quarter hours	___
PO 465 Senior Research Project	5 quarter hours	___
Four Electives in Political Science	20 quarter hours	___ ___ ___ ___
TOTAL HOURS IN MAJOR:	60 quarter hours	

4. An approved minor is **not** required.

Bachelor of Science in Education - Political Science Major
MAJOR CODE: 13.1205G

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
Geography	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Mathematics	5 quarter hours	___
Science (Must include both biological and physical)	15 quarter hours	___ ___ ___
Speech	5 quarter hours	___
* Health Education (not First Aid)	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS	70 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

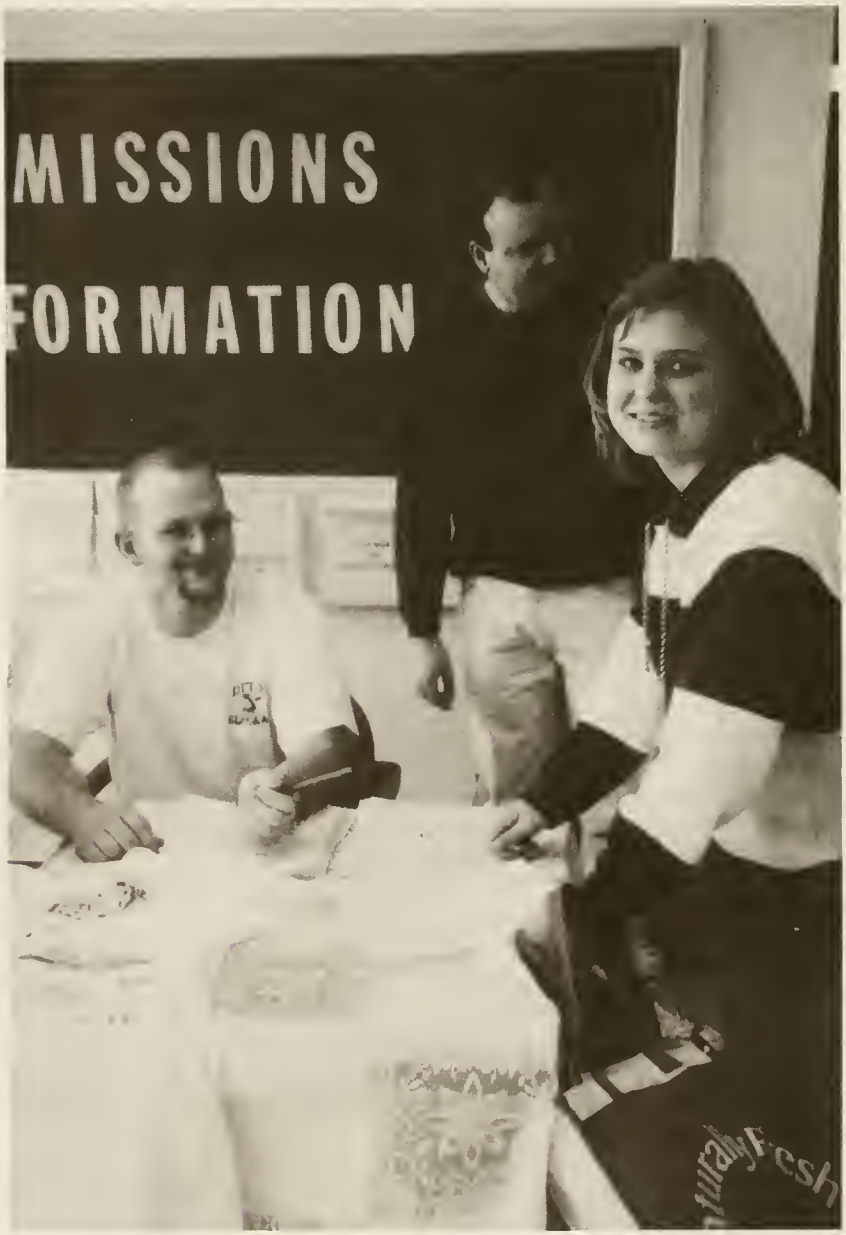
PO 301 Social Science Research Methods	5 quarter hours	___
PO 304 Problems of American Government	5 quarter hours	___
PO 308 America and the World	5 quarter hours	___
Political Science Electives	10 quarter hours	___ ___
One of the following:	5 quarter hours	___
PO 303 Comparative State and Urban Government		
PO 305 Alabama Government		
One of the following:	5 quarter hours	___
PO 307 American Constitutional Law		
PO 364 Civil Liberties		
One of the following:	5 quarter hours	___
PO 334 The Middle East		
PO 452 Comparative Political Systems		
One of the following:	5 quarter hours	___
PO 377 Public Administration		
PO 351 Political Sociology		
One of the following:	5 quarter hours	___
PO 320 Introduction to International Commerce		
PO 453 International Politics		
TOTAL MAJOR HOURS	50 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

Political Science Minor

The student seeking a minor in political science should complete thirty quarter hours in political science courses to include:

PO 304 Problems of American Government or American Government 5 quarter hours
PO 303 Comparative State and Urban Government or PO 305 Alabama Government 5 quarter hours
PO 308 America and the World or PO 453 International Politics 5 quarter hours
Political Science Electives 15 quarter hours



PUBLIC SAFETY ADMINISTRATION

The Public Safety Administration program is designed to educate and prepare individuals for management and supervisory positions requiring technical competence and leadership skills in various areas of public safety including: fire services, emergency medical services, loss prevention, and water and waste water management. Students will generally enter the program possessing a technical core of courses in their associate degree curriculum in one of the above listed areas, and the Public Safety Administration program at Athens State adds a management and administration core to the student's curriculum.

The degree program is designed to meet the needs of public safety professionals, specialists, and pre-service students in these fast-growing areas.

Students pursuing degrees in Public Safety Administration will have the opportunity to demonstrate their competencies in specialized and technical public safety fields, and in management and administrative theories through a variety of situational problems and simulations involving public safety issues. The curriculum consists of several research seminars and internship experiences incorporating actual public safety agencies.

Bachelor of Science - Public Safety Administration Major

MAJOR CODE: 43.0201

Program components of the Bachelor of Science - Public Safety Administration Major - include the following:

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities (must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science	10 quarter hours	___ ___
Behavioral Science	10 quarter hours	___ ___
Natural Science	15 quarter hours	___ ___ ___
Math (College Algebra or its equivalent)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	70 quarter hours	

3. **TECHNICAL CORE:**

Professional Program: Completion of Associates Degree (or equivalent) in Emergency Medical Service, Fire Science, Water Quality Management, or Law Enforcement.	50 quarter hours	___

4. **MAJOR REQUIREMENTS:**

AC 300 Basic Accounting (or the equivalent)	5 quarter hours	___
PSA 314 Legal Issues in Public Safety Administration	5 quarter hours	___
PSA/MG 349 Human Resources Management	5 quarter hours	___
PSA/MG/PS 375 Organizational Behavior	5 quarter hours	___
PSA/PO 377 Public Administration	5 quarter hours	___
PSA 425 Strategic Management Concepts for Public Safety Management	5 quarter hours	___
PSA 444 Contemporary Issues Seminar in Public Safety	5 quarter hours	___
PSA/JS/PO 455 Ethics for Public Administration	5 quarter hours	___
PSA 475 Research Practicum in Public Safety	5 quarter hours	___
PSA/JS/PO/MG Elective (approved by advisor)	5 quarter hours	___
TOTAL HOURS IN MAJOR:	50 quarter hours	

5. A minor is not required.

6. Free electives (may include no more than 21 quarter hours in Public Safety Administration)

7. TOTAL MINIMUM HOURS FOR DEGREE 192 quarter hours

NOTE: See following page for Extra-Institutional Credit in the Public Safety field.

PUBLIC SAFETY EXTRA-INSTITUTIONAL CREDIT

Students majoring in Public Safety Administration may be eligible to obtain up to a maximum of 20 quarter hours upper-division academic credit for work experience and advanced professional certifications. Academic credit may be awarded for official professional certification in a public safety field and/or work experience in a public safety supervisory/administrative position. Credit for basic certificates or credit previously awarded at another level or through another institution will not be duplicated.

Students meeting the qualifications for extra-institutional credits must register for particular courses in which the students' credentials are assessed and appropriate credits awarded. Students assume the responsibility for registering for the appropriate course credits, and for submitting to the Public Safety Administration program director all appropriate certificate copies and documentation of administrative work experiences. Students successfully documenting advanced professional skills and administrative experience will be awarded a score of P (passing) for appropriate coursework. Students may not register for this coursework their first quarter at Athens State College, but must register for this coursework prior to their last quarter registration.

The particular courses for which qualified students should register are listed below with appropriate criteria.

PSA 459D Public Safety Supervisor (or equivalent)
Must provide a letter of appointment from agency

PSA 460D Public Safety Manager/Administrator (or equivalent)
Must provide a letter of appointment from agency

PSA 461D Public Safety Instructor
Must provide copy of certificates

PSA 462D Hazardous Materials
Technician (from senior college)
Must provide copy of certificate

PSA 463D Hazardous Material Specialist
(from senior college)
Copy of certificate

BEHAVIORAL SCIENCES

The Department of Behavioral Sciences offers majors in Psychology, Sociology, and Behavioral Science. Minors are offered in Psychology and Sociology.

Degree options include the Bachelor of Arts and Bachelor of Science. Psychology majors may complete either of these degree options. Majors in Sociology may complete either the Bachelor of Arts or the Bachelor of Science degree. Behavioral Science majors earn the Bachelor of Science degree.

For each degree program in the Department of Behavioral Sciences, the maximum credits allowed for each major discipline is twenty-one (21) quarter hours beyond the minimum hours specified for the major.

PSYCHOLOGY (PS)

Students in psychology are offered a wide variety of courses designed to provide the basic knowledge and skills which are considered to be the basic foundation of the field of psychology.

Students entering the program will be assigned an academic advisor during the first quarter. The student should consult the list posted outside the departmental office to determine his/her advisor. Then the student should meet his/her advisor as soon as possible to review the requirements of his/her chosen major.

During the last quarter, the student will be required to take an exit examination in psychology. At the present time, no passing score is required, but the student is encouraged to do as well as possible to help determine how much they have gained from their program of study.

Each degree program, with its requirements, is outlined on the following pages.



Bachelor of Arts - Psychology Major

MAJOR CODE: 42.0101A

This program is designed for the student who ultimately wants to earn an advanced graduate degree in psychology. The program emphasizes high academic achievement and mastery of research methodology, which should prepare the student for high scores in the GRE and admission to nationally recognized graduate programs in psychology. Before admission to this degree program, the student must have completed college algebra (or a higher level math course). After admission, the student is encouraged to take statistics and experimental psychology as soon as possible and then participate in a supervised research project. The specific objectives of this degree are to:

1. Provide a knowledge base of psychology including major theories and research findings.
2. Teach a variety of statistical, methodological, and critical thinking skills which are needed for psychological research.
3. Instill an appreciation for the ethical principles governing the field of psychology.
4. Help the student achieve the highest possible score on the Graduate Record Examination.
5. Assist the student with application to nationally recognized graduate programs in psychology.

Program components for the Bachelor of Arts - Psychology Major - include the following:

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives (Must include General Psychology)	10 quarter hours	___ ___
Natural Science (May include approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (Must be college algebra or higher level math course)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	80 quarter hours	

3. **MAJOR REQUIREMENTS:**

PS 320 Cognitive Psychology	5 quarter hours	___
PS 331 Social Psychology	5 quarter hours	___
PS 332 Child Psychology **or** PS 334 Adolescent Psychology	5 quarter hours	___
PS 336 Psychology of Learning **or** PS 410 History and Systems of Psychology	5 quarter hours	___
PS 341 Statistics in Behavioral Science	5 quarter hours	___
PS 352 Abnormal Psychology	5 quarter hours	___
PS 380 Experimental Psychology	5 quarter hours	___
PS 406 Physiological Psychology	5 quarter hours	___
Psychology Electives (Four approved by Advisor)	20 quarter hours	___ ___ ___ ___
TOTAL HOURS IN MAJOR	60 quarter hours	

4. The student must satisfy requirements for a minor in another field. 25 quarter hours ___ ___ ___ ___ ___

5. Electives: The student is encouraged to select electives which will prepare him/her to obtain the highest possible score on the Graduate Record Examination (GRE). Such courses would include geometry, additional literature courses, and science courses. 27 quarter hours ___ ___ ___ ___ ___ ___

6. Total hours for the degree 192 quarter hours

Bachelor of Science - Psychology Major

MAJOR CODE: 42.0101B

This program is designed for the student who wants to major in psychology and have the freedom to select a broad range of electives. It provides a strong foundation in psychology and a solid general education background. The specific objectives of this degree program are to:

A. Provide a knowledge base of psychology including major theories and research findings.
B. Teach a variety of clinical skills which will be useful in applied settings.
C. Instill an appreciation for the ethical principles governing the field of psychology.

The requirements for this degree are:

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives (Must include General Psychology)	10 quarter hours	___ ___
Natural Sciences (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (Must be Intermediate algebra or equivalent)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	70 quarter hours	

3. **MAJOR REQUIREMENTS:**

PS 320 Cognitive Psychology	5 quarter hours	___
PS 331 Social Psychology	5 quarter hours	___
PS 332 Child Psychology **or** PS 334 Adolescent Psychology	5 quarter hours	___
PS 336 Psychology of Learning **or** PS 410 History and Systems of Psychology	5 quarter hours	___
PS 341 Statistics in Behavioral Science	5 quarter hours	___
PS 352 Abnormal Psychology	5 quarter hours	___
PS 380 Experimental Psychology	5 quarter hours	___
PS 406 Physiological Psychology	5 quarter hours	___
Psychology Electives (Four)	20 quarter hours	___ ___ ___ ___
TOTAL HOURS IN MAJOR:	60 quarter hours	

4. Free electives (May include no more than 21 quarter hours in psychology) 62 quarter hours ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

5. Total minimum hours for the degree 192 quarter hours

Bachelor of Science - Behavioral Science Major

MAJOR CODE: 30.9999

This program is designed for the student who ultimately aspires to work in the area of mental health, social work, counseling, or substance abuse. It provides students the flexibility of being able to enter the work force immediately upon graduation or to enter a master's degree program in counseling or social work. The program provides a solid foundation of the basic knowledge in psychology and sociology, and provides for a concentration of courses dealing with applied and clinical aspects of the human services professions. The specific objectives of this degree are to:

1. Provide a knowledge base of psychology including major theories and research findings.
2. Teach a variety of clinical concepts and skills which will be useful in applied human services settings.
3. Instill an appreciation for the ethical principles governing the fields of psychology, social work and counseling.
4. Assist the student either locating degree related employment or being admitted to an appropriate graduate program.

A departmental exit exam is required of all students completing a degree in behavioral science.

The requirements for this degree are:

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
General Psychology and General Sociology	10 quarter hours	___ ___
Natural Science (May include approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (Must be Intermediate algebra or equivalent)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	70 quarter hours	

3. **MAJOR REQUIREMENTS:**

Psychology Courses Required:

PS 331 Social Psychology	5 quarter hours	___
PS 332 Child Psychology **or** PS 334 Adolescent Psychology **or** PS 335 Adult Psychology	5 quarter hours	___
PS 341 Statistics in Behavioral Science	5 quarter hours	___
PS 352 Abnormal Psychology	5 quarter hours	___
PS 404 Drugs and Behavior	5 quarter hours	___
Psychology Elective	5 quarter hour	___

Sociology Courses Required:

SO 312 Majority/Minority Group Relations	5 quarter hours	___
SO 340 Methods of Behavioral Science Research	5 quarter hours	___
SO 360 Contemporary American Family	5 quarter hours	___
SO 361 Social Analysis	5 quarter hours	___
SO 362 Deviant Social Behavior	5 quarter hours	___
Sociology Elective	5 quarter hours	___
TOTAL HOURS IN MAJOR:	60 quarter hours	

4. Free Electives
The student is encouraged to select electives that would be related to work in the human services field. Such courses would include additional psychology and sociology courses (but no more than 21 quarter hours in these areas), Human Sexuality, Criminal Justice, and Human Anatomy/Physiology 62 quarter hours ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

5. TOTAL MINIMUM HOURS FOR DEGREE 192 quarter hours

Psychology Minor

Students who desire a minor in psychology must complete the following courses:

General Psychology	Prerequisite
PS 320 Cognitive Psychology **or** PS 336 Psychology of Learning	5 quarter hours
PS 332 Child Psychology **or** PS 334 Adolescent Psychology	5 quarter hours
PS 352 Abnormal Psychology	5 quarter hours
PS 406 Physiological Psychology	5 quarter hours
Psychology Elective	5 quarter hours



SOCIOLOGY (SO)

The program in Sociology seeks to provide students with a comprehensive background for graduate study in sociology. For students preparing for careers in social service, probation/parole, mental health, and related areas, Sociology provides an important background knowledge base.

Specific competencies emphasized in all sociology degree programs include:

1. A knowledge base that emphasizes the knowledge, theory, and application of core sociological concepts.
2. Problem solving skills which have been formed by a sociological frame of reference.
3. The ability to collect, analyze, and interpret research data.
4. The knowledge and skill required to work in human service agencies.
5. The background and the ability to do graduate school work.

A departmental exit exam or successful completion of SO 490 is required of all students completing a degree in sociology.

Bachelor of Arts - Sociology Major
MAJOR CODE: 45.1101A

Program components for the Bachelor of Arts - Sociology major - include the following:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature	10 quarter hours	___ ___
History	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	15 quarter hours	___ ___ ___
Social Science Elective (Other than History or Religion/Philosophy)	5 quarter hours	___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (College algebra or equivalent)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	80 quarter hours	

3. **MAJOR REQUIREMENTS:**

Introduction to Sociology	5 quarter hours	___
SO 312 Majority/Minority Group Relations	5 quarter hours	___
SO 314 Population Studies	5 quarter hours	___
SO 340 Methods of Behavioral Science Research	5 quarter hours	___
SO 341 Statistics in Behavioral Science	5 quarter hours	___
SO 360 The Contemporary American Family	5 quarter hours	___
SO 361 Social Analysis	5 quarter hours	___
SO 362 Deviant Social Behavior	5 quarter hours	___
SO 461 Sociological Theories	5 quarter hours	___
Sociology Electives	10 quarter hours	___ ___
TOTAL HOURS IN MAJOR:	55 quarter hours	

4. A minor is required.

5. Free electives (May include no more than 21 quarter hours in Sociology) 57 quarter hours ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

6. TOTAL MINIMUM HOURS FOR DEGREE 192 quarter hours

Bachelor of Science - Sociology Major
MAJOR CODE: 45.1101B

Program components for the Bachelor of Science - Sociology Major - include the following:

1. Applicable general college requirements (pg. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Sciences (May include one approved Computer Science Elective)	15 quarter hours	___ ___ ___
Mathematics (Must be college algebra or equivalent)	5 quarter hours	___
TOTAL HOURS IN GENERAL EDUCATION	70 quarter hours	

3. **MAJOR REQUIREMENTS:**

Introduction to Sociology	5 quarter hours
SO 312 Majority/Minority Group Relations	5 quarter hours
SO 314 Population Studies	5 quarter hours
SO 340 Methods of Behavioral Science Research	5 quarter hours
SO 341 Statistics in Behavioral Science	5 quarter hours
SO 360 The Contemporary American Family	5 quarter hours
SO 361 Social Analysis	5 quarter hours
SO 362 Deviant Social Behavior	5 quarter hours
SO 461 Sociological Theories	5 quarter hours
Sociology Electives	10 quarter hours
TOTAL HOURS IN MAJOR:	55 quarter hours

4. A minor is **not** required.

5. Free electives (May include no more than 21 quarter hours in Sociology) 67 quarter hours ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

6. TOTAL MINIMUM HOURS FOR DEGREE 192 quarter hours

SOCIOLOGY MINOR

A minor in Sociology requires the completion of thirty quarter hours of coursework to consist of the following:

SO 312 Majority/Minority Group Relations	5 quarter hours
SO 362 Deviant Social Behavior	5 quarter hours
SO 461 Sociological Theories	5 quarter hours
Sociology Electives	15 quarter hours

LIBERAL STUDIES

Bachelor of Science in Liberal Studies

MAJOR CODE: 24.0101

The Liberal Studies program is designed to benefit students who seek progression and mobility in their educational and career goals. The program provides maximum flexibility in course selection while allowing the student to concentrate on subject matter of particular relevance.

The Liberal Studies program is also intended for those students who wish to enrich and satisfy their personal goals through non-specialized collegiate study.

While no specified major courses are required, the student must comply with all requirements for the Bachelor of Science Degree and applicable college requirements (page 19).

The following limitations apply to the Bachelor of Science in Liberal Studies:

(a) A minor is not permitted in the Liberal Studies program.
(b) Liberal Studies may not be considered as a minor to any other degree program.
(c) Liberal Studies may not be considered as a second major with any other degree program.

1. GENERAL EDUCATION REQUIREMENTS:

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one computer science)	15 quarter hours	___ ___ ___
Mathematics	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS	70 quarter hours	

2. Free Electives 122 quarter hours

TOTAL HOURS 192 quarter hours

A minor is not permitted.

School of Science & Mathematics

Thomas S. Jandebeur, Ph.D.
School Dean

WATERS HALL

Department	Departmental Major or Minor	Degree Options: B.S.	B.S.Ed.	Minor
Biology	Biology	*	*	*
Chemistry	Chemistry	*	*	*
Physics	Physics	*		*
	Instrumentation Physics Option	*		
Instrumentation	Instrumentation	*		*
Mathematics	Mathematics	*	*	*
Computer Science	Computer Science	*		*
	Computer Information Systems Option	*		*
Indepartmental	Comprehensive Science		*	
Interdisciplinary	Health Science	*		
	Science Management	*		

SCHOOL OF SCIENCE AND MATHEMATICS

Thomas S. Jandebeur, Ph.D., School Dean

Both the organization of the School of Science and Mathematics by department, and information relative to degree options, majors, and minors, are summarized in the preceding chart. An asterisk is used to designate the degree option(s) for a particular major and to indicate that a department offers a minor. **The summary reflects the same order used to arrange this section of the catalog.** For information regarding a particular departmental major or minor, the student is referred to that department's catalog description.

Science and mathematics curricula require extended course sequences. Therefore, it is imperative that Science and Mathematics majors meet with their Faculty Advisor, to be assigned by the School Dean, as soon as possible. It must be noted, however, that the student bears final individual responsibility for scheduling and completing all requirements for his or her degree. It is the student's responsibility to comply with the requirements for a particular major sponsored by the School of Science and Mathematics. Under no circumstances are alterations of a particular curriculum permitted without prior approval of the student's Faculty Advisor, the School Dean, and the Dean of Academic Affairs (see Adjustment of Curriculum, p. 21 in this catalog.) To fit specific student needs, special programs may be devised which vary slightly from published requirements.

Science and mathematics curricula are designed to prepare students for entrance into the job market, or for continuing education in graduate or professional school, and to assist students to acquire skills and competencies in the following areas:

1. Written and oral communication;
2. Critical thinking;
3. Mathematics;
4. Computer literacy.

The following departments are included within the School: Biology, Chemistry, Physics, Mathematics, and Computer Science. Departmental majors leading to the Bachelor of Science degree are sponsored by each department. In cooperation with the School of Education, students majoring in Biology, Chemistry, Mathematics, or Comprehensive Science may earn a Bachelor of Science in Education degree leading to Class B Certification in High School Education. In cooperation with the School of Business, the School sponsors an interdisciplinary major in Science Management leading to the Bachelor of Science degree. In cooperation with either the School of Business or the School of Education, the School sponsors an interdisciplinary major in Health Science leading to the Bachelor of Science degree. For each degree program the maximum credits allowed for each major discipline is twenty-one (21) quarter hours beyond the minimum hours specified for the major.

To qualify for graduation, students majoring in a program sponsored by the School must achieve a 2.5 grade point average for the listed major course requirements.

Pre-medical, Pre-dental, and Para-medical students: At Athens State College, pre-medical, pre-dental, and para-medical students are advised to major in either Biology or Chemistry. However, a program of study tailored to meet specific recommendations of a particular professional school, and leading to a Bachelor of Science degree, may be worked out for the student in consultation with his or her Faculty Advisor.

BIOLOGY (BI)

The objective of the major in Biology is to provide the graduate with a comprehensive science education, encompassing standard academic courses in Biology, Chemistry, Physics, and Mathematics. Courses and programs are structured to provide basic coursework applicable to (1) fields requiring a general preparation in Biology, (2) graduate and professional programs, (3) medical and related health fields, and (4) secondary school teaching.

Biology offers majors leading to the Bachelor of Science degree and to the Bachelor of Science in Education degree. A minor also is offered.

Bachelor of Science - Biology Major

MAJOR CODE: 26.0101

Structured to prepare students for research and technical areas requiring a baccalaureate degree, this program also is designed to satisfy most graduate and/or professional school admission requirements.

Program components for the Bachelor of Science degree with a major in Biology include:

1. Applicable general college requirements (p. 19).

2. A maximum 61-63 quarter hour major, including a minimum of 36 quarter hours of upper division course work, **at least 24 quarter hours of which must be taken at Athens State College.** (Courses taken under the SIR agreement do not constitute upper division course work.) **Independent study courses will not satisfy course requirements for the major or minor.**

3. **GENERAL COLLEGE REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Pre-Calculus	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	55 quarter hours	

4. **MAJOR REQUIREMENTS:**

* Principles of Biology	5 quarter hours	___
* Plant Biology **or** General Botany	5 quarter hours	___
* Animal Biology **or** General Zoology	5 quarter hours	___
BI 301 Cell Structure and Function	6 quarter hours	___
BI 302 Genetics	6 quarter hours	___
BI 303 General Ecology	6 quarter hours	___

Five of the following courses or Faculty Advisor approved electives:

Human Anatomy and Physiology	5 quarter hours	___
Microbiology	5 quarter hours	___
BI 322 Human Genetics	5 quarter hours	___
BI 341 Biogeography	5 quarter hours	___
BI 342 Economic Botany	5 quarter hours	___
BI 410 Biochemistry	5 quarter hours	___
BI 411 Invertebrate Systematics and Morphology **or** BI 412 Invertebrate Development and Function	6 quarter hours	___
BI 413 Field Vertebrate Zoology **or** BI 414 Comparative Vertebrate Zoology	6 quarter hours	___
**BI 420 Ichthyology	5 quarter hours	___
**BI 421 Herpetology	5 quarter hours	___
BI 424 Animal Physiology	6 quarter hours	___
BI 431 Plant Systematics and Morphology **or** BI 432 Plant Development and Function	6 quarter hours	___
BI 440 Biotechnology	5 quarter hours	___
BI 441,442,443,444 Special Topics in Biology	5 quarter hours	___
TOTAL HOURS IN MAJOR:	58-61 quarter hours	

*These courses should be completed first.

**The major may include no more than two electives from among the following courses: Ichthyology, Herpetology, Ornithology, Mammalogy.

5. A minor is **not** required.

6. The following science and mathematics courses, or their approved equivalents are required:
General Chemistry (CH 303, 304)
Organic Chemistry (CH 305 or CH 311)
Calculus I (MA 303) or Statistics
Computer Science (CS 301), and either CS 312, CIS 325, or CIS 365

7. The major who plans to attend graduate, medical, or other professional (e.g., veterinary, chiropractic, optometry, pharmacal) school, or who seeks special licensure or certification (e.g., physical therapist, wildlife biologist) should become acquainted with specific recommendations or requirements for science and mathematics coursework of the particular school or licensing or certifying agency, and complete the recommended or required coursework. A program of study tailored to meet specific recommendations and or requirements for science and mathematics coursework will be developed for the major in consultation with his or her faculty advisor. In general, the following courses or their equivalents frequently are recommended or required:

 Calculus II (MA 304)
 Physics (PY 301, 302, 303)
 Organic Chemistry (CH 311, 312, 313)
 Biochemistry (BI 410 or CH 413)

8. **Pre-assessment and exit examinations**: To comply with Southern Association of Colleges and Schools (SACS) accreditation standards, the Department of Biology administers both pre-assessment and exit examinations to its majors. The examinations serve a four-fold purpose:

 (1) to assess preparedness for taking certain junior or senior level biology courses;
 (2) to establish a benchmark for assessing knowledge gained as a result of completing the biology major at ASC;
 (3) to assess preparedness for graduate study in biology or for admission to professional school; and
 (4) to assess preparedness for a career as a biologist.

 There is no cost for taking the examinations, nor is it necessary to undertake any special preparation for the examinations. The pre-assessment examination is designed to cover topics that usually are presented in an introductory biology sequence (i.e., a two semester sequence - General Biology I, General Biology II; or a three quarter sequence - Principles of Biology, Plant Biology, Animal Biology). Exit examination questions are drawn from the following areas: Cellular Biology, Ecology (including Field Ecology), Genetics, Vascular and Non-vascular Botany, and Invertebrate and Vertebrate Zoology. The examinations are designed to be completed in 60 minutes. The pre-assessment examination is administered during the first quarter of attendance at ASC; the exit examination is administered during the quarter at the end of which the major expects to graduate. For the purpose of taking either the pre-assessment or exit examination, the major should contact Ms. Mary Simpson, Secretary, School of Science and Mathematics (205) 233-8274) to schedule an appointment.

Bachelor of Science in Education - Biology
MAJOR CODE: 13.1205A

1. Applicable general college requirements (pg. 19).

2. A 58-62 quarter hour major, including a minimum of 36 quarter hours of upper division course work, **at least 24 quarter hours of which must be taken at Athens State College.** (Courses taken under the SIR agreement do not constitute upper division course work.) **Independent study courses will not satisfy course requirements for the major or minor.**

3. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Literature Survey	10 quarter hours	___ ___
Economics	5 quarter hours	___
History	5 quarter hours	___
General Psychology	5 quarter hours	___
Social Science Elective	5 quarter hours	___
Pre-Calculus	5 quarter hours	___
Survey of Physics (GS 325 or equivalent)	5 quarter hours	___
Introductory chemistry with lab, or CH301, or CH303, or equivalent	5-6 quarter hours	___
One of the following: Biogeography (BI/GO 341) or Physical Geography, World, Regional, or General Geography, Earth Science (GS 302) or Geology, Atmospheric Science (GS 301) or Meteorology	5 quarter hours	___
Speech	5 quarter hours	___
* Health Education (not First Aid	1-4 quarter hours	___
* Physical Education (activity)	1-4 quarter hours	___
*For a combined total of 5 quarter hours		
TOTAL GENERAL EDUCATION HOURS 70-71 quarter hours		

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

5. **MAJOR REQUIREMENTS:**

*Principles of Biology	5 quarter hours	___
*Plant Biology or General Botany	5 quarter hours	___
*Animal Biology or General Zoology	5 quarter hours	___
BI 301 Cell Structure and Function	6 quarter hours	___
BI 302 Genetics	6 quarter hours	___
BI 303 General Ecology	6 quarter hours	___
Five of the following courses or Faculty Advisor approved electives:		
Human Anatomy and Physiology	5 quarter hours	___
Microbiology	5 quarter hours	___
BI 322 Human Genetics	5 quarter hours	___
BI 341 Biogeography	5 quarter hours	___
BI 342 Economic Botany	5 quarter hours	___
BI 410 Biochemistry	5 quarter hours	___
BI 411 Invertebrate Systematics and Morphology **or** BI 412 Invertebrate Development and Function	6 quarter hours	___
BI 413 Field Vertebrate Zoology **or** BI 414 Comparative Vertebrate Zoology	6 quarter hours	___
** BI 420 Ichthyology	5 quarter hours	___
** BI 421 Herpetology	5 quarter hours	___

BI	424 Animal Physiology	5 quarter hours	___
BI	431 Plant Systematics and Morphology **or** BI 432 Plant Development and Function	6 quarter hours	___
BI	440 Biotechnology	5 quarter hours	___
BI	441, 442, 443, 444 Special Topics in Biology	5 quarter hours	___
TOTAL HOURS IN MAJOR		58-61 quarter hours	

***These courses must be completed first.**

**The major may include no more than two electives from among the following courses: Ichthyology, Herpetology, Ornithology, Mammalogy.

6. An approved second teaching major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

7. A minor is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **biology**, the following courses are required:

ED 300 Foundations of Education	5 quarter hours	___
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours	___
ED 420 Materials and Methods of Teaching Science	5 quarter hours	___
PS 332 Child Psychology	5 quarter hours	___
SDE approved courses from the teaching field for 7-12 certification	40 quarter hours	___
TOTAL	60 quarter hours	

NOTE: IF THE TEN WEEK INTERNSHIP DID NOT INCLUDE AT LEAST FIVE WEEKS IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



BIOLOGY MINOR

A minor requires completion of a minimum of 33 quarter hours of biology coursework, including 18 quarter hours of upper division coursework, at least 12 of which must be taken at Athens State College.

The minor must include the following courses or their approved equivalents:

* Principles of Biology	5 quarter hours
* General Botany	5 quarter hours
* General Zoology	5 quarter hours

Three of the following:

BI 301 Cell Structure and Function	6 quarter hours
BI 302 Genetics	6 quarter hours
BI 303 General Ecology	6 quarter hours
BI 322 Human Genetics	5 quarter hours
BI 341 Biogeography	5 quarter hours
BI 410 Biochemistry	5 quarter hours
BI 411 Invertebrate Systematics and Morphology	6 quarter hours
BI 412 Invertebrate Development and Function	6 quarter hours
BI 413 Field Vertebrate Zoology	6 quarter hours
BI 414 Comparative Vertebrate Anatomy	6 quarter hours
BI 420 Ichthyology	5 quarter hours
BI 421 Herpetology	5 quarter hours
BI 424 Animal Physiology	6 quarter hours
BI 431 Plant Systematics and Morphology	6 quarter hours
BI 432 Plant Development and Function	6 quarter hours
BI 440 Biotechnology	6 quarter hours
BI 441, 442, 443, 444 Special Topics in Biology	1-5 quarter hours
BI 460 Directed Study/Research in Biology	1-5 quarter hours
TOTAL HOURS	33 quarter hours

***These courses should be completed first.**

MARINE SCIENCE MINOR

A Marine Science minor requires completion of 33 quarter hours of marine science and/or biology coursework, at least 18 quarter hours of which must be taken at Dauphin Island Sea Lab.

MARINE ENVIRONMENTAL SCIENCES CONSORTIUM

Athens State College is a member of the Marine Environmental Sciences Consortium, based at Dauphin Island, Alabama. This affiliation offers Athens State College students an opportunity to take courses and conduct research in estuarine and marine environments. Courses offered during the summer at Dauphin Island Sea Lab may be taken for credit at Athens State College toward a major or minor in biology or a minor in marine science.

Some of the course offerings cannot be taken for biology major or minor credit, but may be taken as general elective credit. All programs of study that involve marine science courses must be approved by the Department of Biology. A list of summer course offerings can be obtained during the preceding Spring Quarter from the Department of Biology. Active courses of undergraduate study sponsored by the Consortium are as follows:

Marine Biology for Teachers
Marine Biology
Marine Invertebrate Zoology
Marine Botany
Marine Geology
Marine Ecology
Marine Vertebrate Zoology
Coastal Ornithology
Marine Technical Methods
Coastal Geomorphology
Coastal Climatology
Commercial Marine Fisheries
Coastal Zone Management
Dolphins and Whales
Marsh Ecology
Introduction to Oceanography

CHEMISTRY (CH)

The chemistry major may earn either the Bachelor of Science degree or the Bachelor of Science in Education degree. The Bachelor of Science degree is sufficient preparation for a career in industrial or governmental chemistry laboratories and graduate study. The Bachelor of Science in Education degree prepares the student for high school teaching. With proper electives, the chemistry major can also enter graduate degree programs in law, medical or dental school, environmental sciences, and related fields.

Bachelor of Science - Chemistry Major

MAJOR CODE: 40.0501

Program components for the Bachelor of Science degree with a major in Chemistry include:

1. Applicable general college requirements (p. 19).

2. A maximum 83 quarter hour major; at least 36 quarter hours must be taken at Athens State College.

3. Major Field Achievement Examination (MFA) score filed in permanent record in the Admissions Office.

4. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other Than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS	50 quarter hours	

5. **MAJOR REQUIREMENTS:**

General Chemistry or CH 303,304,305 Chemistry I, II, III	15- 18 quarter hours	___ ___ ___
CH 311,312,313, Organic Chemistry	15- 18 quarter hours	___ ___ ___
CH 314,315 Polymer Science	12 quarter hours	___ ___ ___
CH 324 Analytical Chemistry	6 quarter hours	___
CH 410 Instrumental Analysis	5 quarter hours	___
CH 410L Instrumental Analysis Lab or CH 460 Directed Study	1 quarter hour	___
CH 430,431,432 Physical Chemistry	15- 18 quarter hours	___ ___ ___
CS 312 Computer Programming I (PASCAL) or CS 330 FORTRAN Programming	5 quarter hours	___
General Physics (Calculus based)	15 quarter hours	___ ___ ___
MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
MA 305 Calculus III	5 quarter hours	___
MA 306 Calculus IV	5 quarter hours	___
MA 421 Differential Equations	5 quarter hours	___
TOTAL HOURS IN MAJOR	114-123 quarter hours	

6. A minor is not required.

Bachelor of Science in Education - Chemistry
MAJOR CODE: 13.1205B

1. Applicable general college requirements (p.19).

2. A 53-59 quarter hour major; at least four chemistry courses must be taken at Athens State College. Approval of all transfer chemistry credits for advanced standing and approval of program projection by the student's chemistry advisor is required.

3. **GENERAL EDUCATION REQUIREMENTS:**

	English Composition	10 quarter hours	___ ___
	Literature Survey	10 quarter hours	___ ___
	Economics	5 quarter hours	___
	History	5 quarter hours	___
	General Psychology	5 quarter hours	___
	Social Science Elective	5 quarter hours	___
	Physics I (PY 301 or equivalent)	5 quarter hours	___
	Biology	5 quarter hours	___
	Earth or Space Science	5 quarter hours	___
	Speech	5 quarter hours	___
*	Health Education (<u>not</u> First Aid)	1-4 quarter hours	___
*	Physical Education (activity)	1-4 quarter hours	___
	*For a combined total of 5 quarter hours		
	TOTAL GENERAL EDUCATION HOURS	65 quarter hours	

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___
ED 305 Computers and Media for Teachers	5 quarter hours	___
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___
ED 361 Measurement and Management	5 quarter hours	___
ED 431 Materials and Methods of Teaching in Middle School/High School	5 quarter hours	___
ED 486 Internship in High School Education	15 quarter hours	___ ___ ___
PS 334 Adolescent Psychology	5 quarter hours	___
SE 301 Introduction to the Exceptional Child	5 quarter hours	___
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours	

MA 303,304 Calculus	10 quarter hours	___ ___
MA 305,306 Intermediate Calculus	10 quarter hours	___ ___
General Chemistry or CH 303,304,305 Chemistry I,II,III	15-18 quarter hours	___ ___ ___ ___
CH 311,312,313 Organic Chemistry	15-18 quarter hours	___ ___ ___ ___
CH 324 Analytical Chemistry	6 quarter hours	___
CH 430 Physical Chemistry	6 quarter hours	___

Select **one** of the following:

CH 314 Polymer Science	6 quarter hours	___
CH 413 Biochemistry	5 quarter hours	___
TOTAL HOURS IN MAJOR:	67-74 quarter hours	

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

Chemistry Minor

A minor in Chemistry requires:

General Chemistry	15-18 quarter hours
Upper Level Chemistry to be determined by Chemistry faculty	15-18 quarter hours
TOTAL HOURS:	30-36 quarter hours

At least fifteen quarter hours of the minor coursework must be taken at Athens State College.

PHYSICS (PY)

The Physics program prepares the graduate for a career as a research laboratory physicist, for entry into a number of related fields including engineering, medicine, medical research, geology/geophysics, instrumentation, and for graduate degree programs in physics and related disciplines.

Bachelor of Science - Physics Major

MAJOR CODE: 40.0801A

1. Applicable general college requirements (p .19).

2. At least 25 quarter hours of upper-division course work in the major must be taken at Athens State College.

3. Graduate Record Exam (GRE) general test score filed in student's permanent record in Admissions Office.

4. PY 301,302,303 will not be credited toward the upper division requirement.

5. A minor is not required; however the student who chooses to complete MA 310 as a major requirement in addition to the other mathematics courses required for the major will have completed a minor in mathematics.

6. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

7. **MAJOR REQUIREMENTS:**

MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
MA 305 Calculus III	5 quarter hours	___
MA 306 Calculus IV	5 quarter hours	___
MA 310 Matrices and Linear Algebra or MA 316 Vector Analysis (both are recommended)	5 quarter hours	___
MA 401 Complex Analysis	5 quarter hours	___
MA 421 Differential Equations	5 quarter hours	___
MA 428 Partial Differential Equations	5 quarter hours	___
IT 435 Instrumentation Survey	5 quarter hours	___
CH 303,304,305 Chemistry I, II, III	18 quarter hours	___ ___ ___
PY 301,302,303 Physics	15 quarter hours	___ ___ ___
PY 305 Introduction to Modern Physics	5 quarter hours	___
PY 306 Heat and Thermodynamics	5 quarter hours	___
PY 308,309 Mechanics	10 quarter hours	___ ___
PY 311,312 Electricity and Magnetism	10 quarter hours	___ ___
PY 344 Principles of Optics	5 quarter hours	___
PY 415 Introductory Quantum Physics I	5 quarter hours	___
PY 435,436 Senior Laboratory I, II	6 quarter hours	___
Upper Level Physics Electives	10 quarter hours	___ ___
General Electives	8 quarter hours	___ ___
TOTAL HOURS IN MAJOR	142 quarter hours	

INSTRUMENTATION PHYSICS OPTION (IT/PY)

The Instrumentation Physics option prepares the graduate for a career as a research laboratory physicist, with special emphasis on experimental automation, for entry into a number of experimental fields including engineering, medicine, medical research, and for graduate degree programs in physics and related disciplines.

Bachelor of Science - Physics Major (Instrumentation Physics Option)

MAJOR CODE: 40.0801B

1. Applicable general college requirements (p. 19).

2. At least 25 quarter hours of upper-division course work in the major must be taken at Athens State College.

3. Graduate Record Exam (GRE) general test score filed in student's permanent record in Admissions Office.

4. PY 301, 302, 303 will not be credited toward the upper division requirement.

5. A minor is **not** required, however, the student who chooses to complete MA 310 as a major requirement plus one additional upper-level mathematics course will have completed a mathematics minor.

6. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

7. **MAJOR REQUIREMENTS:**

MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
MA 305 Calculus III	5 quarter hours	___
MA 306 Calculus IV	5 quarter hours	___
MA 310 Matrices and Linear Algebra **or** MA 316 Vector Analysis	5 quarter hours	___
MA 421 Differential Equations	5 quarter hours	___
IT 435 Instrumentation Survey	5 quarter hours	___
CH 303,304,305 Chemistry I, II, III	18 quarter hours	___ ___ ___
PY 301,302,303 Physics	15 quarter hours	___ ___ ___
PY 305 Introduction to Modern Physics	5 quarter hours	___
PY 306 Heat and Thermodynamics	5 quarter hours	___
PY 308,309 Mechanics	10 quarter hours	___ ___
PY 311,312 Electricity and Magnetism	10 quarter hours	___ ___
PY 410 Solid State Physics **or**		
PY 415 Introductory Quantum Physics I	5 quarter hours	___
IT 306 Interfacing Techniques	5 quarter hours	___
IT 316 Applied Digital Design I	5 quarter hours	___
IT 425 Introduction to Robotics	5 quarter hours	___
IT 440 Process Control Instrumentation	5 quarter hours	___
Upper Level Science Electives (Instrumentation, Chemistry, Physics, Math, or Computer Science beyond the introductory courses)	15 quarter hours	___ ___ ___
General Electives	4 quarter hours	___
TOTAL HOURS IN MAJOR	142 quarter hours	

Physics Minor

A minor in Physics requires 35 quarter hours of Physics including 20 quarter hours of upper division coursework, at least 15 quarter hours of which must be taken at Athens State College. Strict adherence to course prerequisites must be observed.

INSTRUMENTATION (IT)

The Instrumentation program prepares graduates for careers as instrumentation technologists in such diverse areas as data acquisition, process control, and system integration, installation, and repair for laboratories, medical facilities, as well as industries such as power generation, chemical processing, pulp and paper processing, electronic fabrication, and heavy manufacturing.

The program is intended as a terminal degree program for students who do not intend to pursue an education beyond the Baccalaureate level. A student who wishes to pursue a program which offers a greater level of preparation and which serves as an entry point for graduate study should consider the Bachelor of Science in Physics (Instrumentation Option) (see page 106 of this catalog).

Bachelor of Science - Instrumentation Major

MAJOR CODE: 41.9999

Program components for the Bachelor of Science degree with a major in Instrumentation include:

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

3. **MAJOR REQUIREMENTS:**

Introductory Level Electronics courses (Must include: AC and DC Circuits, Semiconductor Electronics, Analog and Digital Circuits, Microprocessors, Troubleshooting, Repair, Boolean Algebra)	40 quarter hours	___ ___ ___ ___ ___ ___ ___ ___
MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
PY 301,302,303 Physics	15 quarter hours	___ ___ ___
PY 305 Introduction to Modern Physics	5 quarter hours	___
PH 301 Introductory Chemistry	6 quarter hours	___
IT 306 Interfacing Techniques	5 quarter hours	___
IT 307 Interfacing Projects	5 quarter hours	___
IT 312 Math Methods for Instrumentation	5 quarter hours	___
IT 316 Applied Digital Design	5 quarter hours	___
IT 317 Digital Design Projects	5 quarter hours	___
IT 400 Advanced Analog Instrumentation	5 quarter hours	___
IT 401 Applied Data Communications	5 quarter hours	___
IT 420 Electro-Optics	5 quarter hours	___
IT 425 Introduction to Robotics	5 quarter hours	___
IT 440 Process Control Instrumentation	5 quarter hours	___
Upper level science electives (including at least one programming language; students may choose from Instrumentation, chemistry, physics, mathematics and/or computer science)	10 quarter hours	___ ___
General Elective	6 quarter hour	___
TOTAL HOURS IN MAJOR:	142 quarter hours	

4. At least 25 quarter hours of IT courses must be completed at Athens State College.
5. Assessment: Successful completion of IT 440, which course should be taken to complete major requirements.

Instrumentation Minor

A minor requires the following courses, of which at least 15 quarter hours must be taken at Athens State College.

Introductory Level Electronics Courses (in areas such as AC and DC Circuits, Semiconductor Electronics, Analog and Digital Electronics, Microprocessors Repair) or sufficient non-traditional credit to meet course prerequisites	30 quarter hours
MA 303, 304 Calculus	10 quarter hours
IT 306 Interfacing Techniques	5 quarter hours
IT 316 Applied Digital Design	5 quarter hours
IT Electives	10 quarter hours
TOTAL HOURS:	60 quarter hours

MATHEMATICS (MA)

The Department of Mathematics offers majors leading to the Bachelor of Science and the Bachelor of Science in Education degrees which will prepare the graduate for scientific endeavors requiring detailed and exact scientific analysis, or for a rewarding career as a high school and/or middle school mathematics teacher. A mathematics major combined with a Computer Science minor will open many career opportunities for the graduate.

Bachelor of Science - Mathematics Major

MAJOR CODE: 27.0101

Program components for the Bachelor of Science degree with a major in Mathematics include:

1. Applicable general college requirements (p. 19).

2. A fifty-five quarter hour major of which at least twenty-five quarter hours must be taken at Athens State College. Any mathematics course transferred into Athens State College, to be used toward completing the mathematics major, must be a grade of "C" or better.

3. Mathematics majors must maintain a 2.5 G.P.A. in mathematics courses taken at Athens State College.

4. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

5. **MAJOR REQUIREMENTS:**

MA 303 Calculus I	5 quarter hours	___
* MA 303L Calculus I Lab	1 quarter hour	___
MA 304 Calculus II	5 quarter hours	___
* MA 304L Calculus II Lab	1 quarter hour	___
MA 305 Calculus III	5 quarter hours	___
* MA 305L Calculus III Lab	1 quarter hour	___
MA 306 Calculus IV	5 quarter hours	___
* MA 306L Calculus IV Lab	1 quarter hour	___
MA 310 Matrices and Linear Algebra	5 quarter hours	___
MA 320 Modern Algebra	5 quarter hours	___
MA 421 Differential Equations	5 quarter hours	___
General Physics (Calculus based)	15 quarter hours	___ ___ ___
Plus four mathematics electives (5 quarter hours each) from the following:	20 quarter hours	___ ___ ___ ___
MA 308 Discrete Mathematics		
MA 316 Vector Analysis		
** MA 401 Complex Analysis		
MA 423 Numerical Analysis		
MA 428 Partial Differential Equations		
MA 430 Theory of Statistics and Probability I		
MA 431 Theory of Statistics and Probability II		
*** MA 441 Special Topics		
MA 445 Mathematical Modeling and Simulation		
** MA 450 Advanced Calculus I		
** MA 451 Advanced Calculus II		
** MA 452 Real Analysis		
TOTAL HOURS IN MAJOR:	74 quarter hours	

6. **APPLIED SKILLS COURSES:**

	BASIC, FORTRAN, PASCAL, or equivalent programming course	5 quarter hours	___
	The student must select three courses (15 quarter hours) from the following:		
	MA 330 Advanced Mathematical Software	5 quarter hours	___
	MA 470 Senior Mathematics Seminar	5 quarter hours	___
****	CIS 325 Applied Spreadsheet	5 quarter hours	___
****	CIS 365 Database Programming	5 quarter hours	___
	General Chemistry (lab based)	5 quarter hours	___
	TOTAL HOURS IN APPLIED SKILLS	20 quarter hours	

*MA303L, MA304L, MA305L and MA306L are accompanying 1 hour laboratory courses to the Calculus courses MA 303, MA304, MA305, MA306 respectively. Beginning Fall Quarter 1996, to satisfy B.S. degree requirements, all mathematics majors must complete the four Calculus laboratory courses.

** Courses beneficial if you are planning to attend graduate school in mathematics.

*** Advisor approval required.

**** Cannot be used to satisfy computer science requirement.

7. **ASSESSMENT/ EXIT EXAMS**

Assessment/exit exams are required for all B.S. mathematics students who enter ASC Fall Quarter 1996 or thereafter. These consist of three types: an internal exam, an external exam, and continuous preassessment. The first two are administered in the math lab; test times will be posted in the Mathematics Lab, Waters Room 4. It is the student's responsibility to take both of these tests at one of the posted times. It is suggested that these be taken during the quarter prior to the student's last quarter. As a condition for graduation, a score of 60% or above is required on the internal exam. This test covers algebra, trigonometry, the calculus sequence, modern algebra, linear algebra, and differential equations. The student may take the internal exam more than once. The external exam is a test designed by the Educational Testing Service. Preassessment will be explained in the appropriate courses.

8. An approved minor is required.

The mathematics major who is minoring in computer science may use MA 308 Discrete Mathematics as either an upper division math elective or as part of the minor, but not both.



Bachelor of Science in Education - Mathematics
MAJOR CODE: 13.1205F

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___	___
Literature Survey	10 quarter hours	___	___
Economics	5 quarter hours	___	
History	5 quarter hours	___	
General Psychology	5 quarter hours	___	
Social Science Elective	5 quarter hours	___	
Biology	5 quarter hours	___	
Physics Survey	5 quarter hours	___	
Chemistry Survey	5 quarter hours	___	
Speech	5 quarter hours	___	
* Health Education (not First Aid)	1-4 quarter hours	___	
* Physical Education (activity)	1-4 quarter hours	___	
TOTAL GENERAL EDUCATION HOURS	65 quarter hours		

*For a combined total of 5 quarter hours.

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	5 quarter hours	___		
ED 305 Computers and Media for Teachers	5 quarter hours	___		
ED 331 Professional Education for Teaching Middle and High School	5 quarter hours	___		
ED 333 Teaching Reading in the Content Areas	5 quarter hours	___		
ED 361 Measurement and Management	5 quarter hours	___		
ED 431 Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours	___		
ED 486 Internship in High School Education	15 quarter hours	___	___	___
PS 334 Adolescent Psychology	5 quarter hours	___		
SE 301 Introduction to the Exceptional Child	5 quarter hours	___		
TOTAL PROFESSIONAL EDUCATION HOURS	55 quarter hours			

4. **MAJOR REQUIREMENTS:**

MA 303,304 Calculus I/II	10 quarter hours	___	___
MA 305,306 Calculus III/IV	10 quarter hours	___	___
MA 314 College Geometry	5 quarter hours	___	
MA 441 Special Topics	5 quarter hours	___	
CS 301 Introduction to Computers and Computer Systems **or** BASIC Programming **or** CS 312 Computer Programming I (Pascal) **or** CS 330 FORTRAN Programming or equivalent programming course	5 quarter hours	___	
Plus five mathematics electives (5 quarter hours each) from the following:	25 quarter hours	___	___ ___ ___ ___
TOTAL HOURS IN MAJOR	60 quarter hours		

MA 308 Discrete Mathematics
MA 310 Matrices and Linear Algebra
MA 316 Vector Analysis
MA 320 Modern Algebra
MA 401 Complex Analysis
MA 421 Differential Equations
MA 423 Numerical Analysis
MA 428 Partial Differential Equations
MA 430,431 Theory of Statistics and Probability I, II
MA 450,451 Advanced Calculus I, II
MA 452 Real Analysis

Students must take at least 35 quarter hours of mathematics courses above MA 306 to fulfill the B.S.Ed. mathematics degree. At least 20 quarter hours of the required 35 quarter hours must be taken at Athens State College. All B.S.Ed. mathematics majors must maintain a 2.5 GPA in mathematics courses taken at Athens State College.

5. **COMPREHENSIVE EXIT EXAM**

Each B.S.Ed. mathematics major must earn a passing score on the mathematics comprehensive exit exam. Developed by the Athens State College Department of Mathematics, this exam is administered by the School of Education. Before a Class B Teaching Certificate is granted, the State Department of Education requires all students completing a B.S.Ed. mathematics

Continued

major to take and pass the exam.

6. A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **mathematics**, the following courses are required:

ED 300 Foundations of Education	5 quarter hours
ED 424 Materials and Methods of Teaching Mathematics in Intermediate Grades	5 quarter hours
ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
PS 332 Child Psychology	5 quarter hours
Advisor approved courses from the State Department of Education approved program.	40 quarter hours
TOTAL	62 quarter hours

NOTE: IF THE TEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Mathematics Minor

A minor in Mathematics requires 35 quarter hours of mathematics, including 15 quarter hours of upper division coursework, at least 10 quarter hours of which must be taken at Athens State College. The following courses must be included:

MA 303, 304 Calculus	10 quarter hours
MA 305, 306 Intermediate Calculus	10 quarter hours
MA 310 Matrices and Linear Algebra	5 quarter hours
MA 421 Differential Equations	5 quarter hours
Upper Division Elective	5 quarter hours
TOTAL HOURS:	35 quarter hours



COMPUTER SCIENCE (CS)

The Department of Computer Science sponsors courses of study leading to a Bachelor of Science degree with a major in Computer Science (CS) or Computer Information Systems (CIS). The Department also sponsors minors in both Computer Science and Computer Information Systems, and a concentration of coursework leading to a Bachelor of Science degree with a major in Science Management (p.119).

CS and CIS curricula emphasize structured programming, problem solving, and software engineering, and require significant hands-on experience using hardware and software resources available in two state-of-the-art computer laboratories maintained by the Department. To ensure up-to-date content, CS and CIS curricula are continually undergoing revision. Complementing the department's full-time faculty, several highly qualified, practicing, computer professionals serve as adjunct faculty. In addition to teaching, the adjunct faculty assist full-time faculty to revise courses and to design courses of study that are responsive to the dynamic external computer science environment—the demands of business, industry, government, and research organizations.

The CS curriculum is designed to prepare students for the job market and/or for graduate school. With regard to the student's immediate objective, approved electives should be chosen carefully: Elective Option A prepares the student to analyze problems and design software solutions as part of a software development team in industry, govemment, and/or a research organization; Elective Option B is structured to meet admission requirements of graduate programs in Computer Science.

The CIS curriculum focuses on problem solving in a business environment. The goal of this curriculum is to prepare the student for the job market as a technically oriented member of a data processing management team.

The maximum credit that may be earned in either the CS or CIS program is 195 quarter hours; no more than 75 quarter hours may be earned in CS or CIS courses. Regarding work based academic credit (p. 27) for CS and/or CIS courses, when the work experience has been evaluated and accepted as appropriate, a written examination covering the content area of the course(s) will be administered by the Department. If a passing grade is earned, academic credit will be awarded.

The Computer Science Department imposes the following requirements and restrictions on accepting computer science courses from other institutions:

- No RPG or computer applications courses will be accepted.
- Not more than 5 quarter hours of FORTRAN will be accepted.
- Introduction to Computers and Basic Programming will not be accepted as electives in CS/CIS.
- "System Analysis and Design" courses cannot be substituted for either CS 451 or CS452.
- At least 10 of the elective quarter hours must be at Athens State College.
- At least 40 of the major course hours must be at Athens State College.
- "Work experience" credit cannot be substituted for CS 451 or CS 452.
- **ASSESSMENT EXAMINATIONS:**
 The departmentof Computer Science requires all CS and CIS majors to complete both an entrance and an exit examination. Used to place the student in the appropriate initial course in the CS or CIS curriculum, the **entrance examination** is developed by the Department; the examination will be graded locally and the results known immediately. Used to assess the CS and CIS programs of study, the **exit examination** is a nationally recognized and normed examination. For a CS or CIS major to graduate from Athens State College, the exit examination must be completed; however, the result of the exit examination is not a criterion for graduation.

Bachelor of Science - Computer Science Major

MAJOR CODE: 11.0101A

Program components for the Bachelor of Science degree with a major in Computer Science include:

1. Applicable general college requirements (p. 19).

2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

3. **MAJOR REQUIREMENTS:**

PY 301,302,303 Physics	15 quarter hours	___ ___ ___
MA 303 Calculus I	5 quarter hours	___
MA 304 Calculus II	5 quarter hours	___
MA 305 Calculus III	5 quarter hours	___
MA 306 Calculus IV	5 quarter hours	___
MA 308 Discrete Mathematics	5 quarter hours	___
MA 310 Matrices and Linear Algebra	5 quarter hours	___
MA 320 Modern Algebra	5 quarter hours	___
MA 421 Differential Equations	5 quarter hours	___
MA 423 Numerical Analysis	5 quarter hours	___
MA 430 Theory of Statistics and Probability I	5 quarter hours	___
CS 309 Introduction to Digital Logic Design	5 quarter hours	___
CS 309L Digital Design Lab I	0 quarter hours	
CS 312 Computer Programming I (Pascal)	5 quarter hours	___
CS 314 Computer Programming II (Introduction to Data Structures)	5 quarter hours	___
CS 317 "C" Programming	5 quarter hours	___
CS 340 Introduction to Assembly Language	5 quarter hours	___
CS 355 Data Organization and File Processing	5 quarter hours	___
CS 409 Introduction to Computer Architecture	5 quarter hours	___
CS 409L Digital Design Lab II	0 quarter hours	
CS 414 Programming Languages	5 quarter hours	___
CS 415 Operating Systems	5 quarter hours	___
CS 451 Software Engineering I	5 quarter hours	___
CS 452 Software Engineering II	5 quarter hours	___
Approved Computer Science Electives	15 quarter hours	___ ___ ___
TOTAL HOURS IN MAJOR:	135 quarter hours	

The only CIS courses that may be taken for elective credit for a CS major are CIS 420 and CIS 440. Other CIS courses will not apply towards a CS major or minor.

Elective Option A:

Students desiring to enter industry should take:

1. CS 316, CS 416, and one other elective, OR
2. CIS 420, CIS 440, and one other elective, OR
3. CS 330, CS 430, and one other elective, OR
4. CS 417 and two other electives.

Elective Option B:

Students desiring to attend graduate school should take the following three courses:
CS 462, CS 472, CS 474.

Bachelor of Science - Computer Science Major (Computer Information Systems Option)

MAJOR CODE: 11.0101B

Program components for the Bachelor of Science degree with a major in Computer Science (Computer Information Systems Option) include:

1. Applicable general college requirements (p. 19).
2. **GENERAL EDUCATION REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas:		
Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	60 quarter hours	

3. **MAJOR REQUIREMENTS:**

Principles of Accounting (or AC 300)	5 quarter hours	___
Principles of Economics (or EC 310)	5 quarter hours	___
EC 321 Money and Banking	5 quarter hours	___
FIN 350 Managerial Finance	5 quarter hours	___
GBA305 Statistical Methods of Business I	5 quarter hours	___
MG 302 Management Information Systems	5 quarter hours	___
MG 346 Principles of Management	5 quarter hours	___
MG 405 Production and Operations Management	5 quarter hours	___
MK 331 Marketing Principles	5 quarter hours	___
MA 301 Pre-Calculus	5 quarter hours	___
MA 308 Discrete Mathematics	5 quarter hours	___
MA 309 Business Calculus	5 quarter hours	___
CS 301 Introduction to Computers and Computer Systems	5 quarter hours	___
CS 312 Computer Programming I (Pascal)	5 quarter hours	___
CS 314 Computer Programming II (Introduction to Data Structures)	5 quarter hours	___
CS 317 "C" Programming	5 quarter hours	___
CIS 320 COBOL Programming	5 quarter hours	___
CIS 325 Applied Spreadsheet	5 quarter hours	___
CIS 365 Database Programming	5 quarter hours	___
CIS 420 Advanced COBOL Programming	5 quarter hours	___
CIS 440 Database Systems	5 quarter hours	___
CS 451 Software Engineering I	5 quarter hours	___
CS 452 Software Engineering II	5 quarter hours	___
Approved Electives in either CS or CIS	20 quarter hours	___ ___ ___ ___
TOTAL HOURS IN MAJOR:	135 quarter hours	

CS electives must be chosen from the following list:

CS 309
CS 316
CS 330
CS 340
CS 355
CS 409
CS 415
CS 416
CS 417
CS 423
CS 426

Computer Science Minor

A minor in Computer Science requires 35 quarter hours distributed in the following way:

*	MA 308 Discrete Mathematics	5 quarter hours
	CS 309 Introduction to Digital Logic Design	5 quarter hours
	CS 312 Computer Programming I (Pascal)	5 quarter hours
	CS 314 Computer Programming II (Introduction to Data Structures)	5 quarter hours
	CS 340 Introduction to Assembly Language	5 quarter hours
	CS 414 Programming Languages	5 quarter hours
**	Computer Science Elective	5 quarter hours
	TOTAL HOURS IN MINOR:	35 quarter hours

*Math majors should substitute CS 330 FORTRAN Programming for MA 308.

**The following CIS courses may be taken for elective credit for a CS minor: CIS 420 or CIS 440. Other CIS courses will not apply towards a CS minor.

Computer Information Systems Minor

A minor in Computer Information Systems requires (35) quarter hours distributed in the following way:

CS 312 Computer Programming I (Pascal)	5 quarter hours
CS 314 Computer Programming II (Introduction to Data Structures)	5 quarter hours
CS 320 COBOL Programming	5 quarter hours
CIS 325 Applied Spreadsheet	5 quarter hours
CIS 365 Database Programming	5 quarter hours
Computer Science or Computer Information Systems Electives	10 quarter hours
TOTAL HOURS IN MINOR:	35 quarter hours

Students desiring a concentration in Computer Information Systems in support of a major in Science Management or a similar major must add the following two courses:

CS 451 Software Engineering I	5 quarter hours
CS 452 Software Engineering II	5 quarter hours
TOTAL HOURS IN MINOR (INCLUDING 35 QUARTER HOURS ABOVE)	45 quarter hours

COMPREHENSIVE SCIENCE

High school science teachers may be certified in comprehensive science. Preparation for this certification requires a foundation developed by a minimum of twenty quarter hours of study in each of the following areas: biology, chemistry, physics, and earth and space science. Approval of all transfer science credits for advanced standing and approval of program projection by the student's School of Science and Mathematics faculty advisor is required.

Once a student is enrolled at Athens State College all major requirements except Principles of Biology, General Botany, and General Zoology must be taken at Athens State College.

General objectives include: (1) student exposure to a broad spectrum of science disciplines (Biology, Chemistry, Physics, General Science and Mathematics), (2) preparation to teach survey subjects at the secondary and middle school levels, (3) development of logical scientific thought processes, and (4) development of laboratory skills complementary to each of the disciplines indicated above.

Bachelor of Science in Education - Comprehensive Science
MAJOR CODE: 13.1399

1. Applicable general college requirements (p.19).

2. **GENERAL EDUCATION REQUIREMENTS:**

	English Composition	10 quarter hours	___ ___
	Literature Survey	10 quarter hours	___ ___
	Economics	5 quarter hours	___
	History	5 quarter hours	___
	General Psychology	5 quarter hours	___
	Social Science Elective	5 quarter hours	___
	Speech	5 quarter hours	___
*	Health Education (not First Aid)	1- 4 quarter hours	___
*	Physical Education (activity)	1- 4 quarter hours	___

*For a combined total of 5 quarter hours.

TOTAL GENERAL EDUCATION HOURS 50 quarter hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300	Foundations of Education	5 quarter hours ___
ED 305	Computers and Media for Teachers	5 quarter hours ___
ED 331	Professional Education for Teaching Middle and High School	5 quarter hours ___
ED 333	Teaching Reading in the Content Areas	5 quarter hours ___
ED 361	Measurement and Management	5 quarter hours ___
ED 431	Materials and Methods of Teaching in Middle School/High School Education	5 quarter hours ___
ED 486	Internship in High School Education	15 quarter hours ___ ___ ___
PS 334	Adolescent Psychology	5 quarter hours ___
SE 301	Introduction to the Exceptional Child	5 quarter hours ___

TOTAL PROFESSIONAL EDUCATION HOURS 55 quarter hours

4. **MAJOR REQUIREMENTS:**

BIOLOGY*

	Principles of Biology	5 quarter hours ___
	General Botany	5 quarter hours ___
	General Zoology	5 quarter hours ___
BI 301	Cell Structure and Functions	6 quarter hours ___

CHEMISTRY*

CH 303	Chemistry I	5- 6 quarter hours ___
CH 304	Chemistry II	5- 6 quarter hours ___
CH 305	Chemistry III	6 quarter hours ___
CH 324	Analytic Chemistry	6 quarter hours ___

EARTH SPACE AND SCIENCE

GS	300 Astronomy	5 quarter hours	___
GS	301 Atmospheric Science	5 quarter hours	___
GS	302 Earth Science	5 quarter hours	___
BI	303 General Ecology	6 quarter hours	___

MATHEMATICS

MA	303 Calculus I	5 quarter hours	___
MA	304 Calculus II	5 quarter hours	___
MA	305 Calculus III	5 quarter hours	___
MA	306 Calculus IV	5 quarter hours	___

PHYSICS

PY	301 General Physics (w/Calculus)	5 quarter hours	___
PY	302 General Physics (w/Calculus)	5 quarter hours	___
PY	303 General Physics (w/Calculus)	5 quarter hours	___
PY	305 Introduction to Modern Physics	5 quarter hours	___
TOTAL HOURS IN MAJOR		118-121 quarter hours	

A second major is **not** required.

***In addition, a concentration in either Biology or Chemistry to equal 36 quarter hours is required. This upper level course work will be selected from B.S.Ed. approved courses for either discipline and may be met by Faculty Advisor approved electives.**

For the student obtaining high school certification who wishes a middle school endorsement in Comprehensive Science, the following courses are required:

ED	300 Foundations of Education	5 quarter hours
ED	413 Reading II: Materials and Methods of Teaching Reading Comprehension	5 quarter hours
ED	420 Materials and Methods of Teaching Science	5 quarter hours
PS	332 Child Psychology	5 quarter hours
Faculty Advisor approved courses from the State Department of Education approved program. Courses must be selected from each of these areas: Physics, Earth and Space Science, Biology, Chemistry.		40 quarter hours
TOTAL		60 QUARTER HOURS

NOTE: IF THE TEN-WEEK INTERNSHIP DID NOT INCLUDE AT LEAST FIVE WEEKS IN GRADES 7-8, AN ADDITIONAL FIVE WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.



HEATH SCIENCE

Athens State College believes that the medical sciences should be augmented with general studies. The close contact that members of the medical professions have with other individuals and the concomitant need for understanding and relating to these individuals as unique human beings are bases for this liberal arts program.

The Bachelor of Science degree with a major in Health Science is a two-year program of study offered to registered nurses and students certified in other para-medical fields.

The following credentials will be required and should be submitted to the Athens State College Office of Admissions:

1. A transcript from the School of Nursing record or para-medical professional school attended.
2. Evidence of RN licensure or para-medical professional certification.
3. Application materials normally required of entering students.

College work taken in addition to the School of Nursing requirements will be evaluated on its own merit for advanced standing and transfer credit. Coursework taken at an accredited college or university as part of the school of nursing requirements will be evaluated for advanced standing.

General objectives for the health science major are: (1)to allow health professionals to obtain a bachelor's degree for professional development and/or to achieve a personal goal.(2)to allow students to tailor the major courses to his/her individual professional situation, and (3) to give the health professional a more versatile education by the addition of liberal arts courses to the technical background.

Bachelor of Science - Health Science Major
MAJOR CODE: 51.9999

Program components for the Bachelor of Science degree with a major in Health Science include

1. Applicable general college requirements (p. 19).

2. GENERAL EDUCATION REQUIREMENTS:

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
Natural Science (May include one approved Computer Science Elective)	10 quarter hours	___ ___
Mathematics	5 quarter hours	___
Survey of Physics (GS 325)	5 quarter hours	___
TOTAL GENERAL EDUCATION HOURS:	70 quarter hours	

3. **MAJOR REQUIREMENTS: Major** requirements may be satisfied by completing GS 325 Survey of Physics and program requirements specified by any regular academic department for a major in the Bachelor of Science in Education degree program. If the chosen department does not specify a major for the Bachelor of Science in Education degree program, forty quarter hours in that department chosen in conference between the student and his/her faculty advisor, will satisfy the requirements.

Nursing Professionals seeking supervisory personnel management positions may wish to consider the following option:

CS 301 Introduction to Computers and Computer Systems or GBA 301 Windows Applicatons for Business	5 quarter hours	___
GBA311 The Legal Environment of Business	5 quarter hours	___
PS 368 Industrial and Personnel Psychology	5 quarter hours	___
MG 320 Managerial Communications or Speech	5 quarter hours	___
MG 346 Principles of Management	5 quarter hours	___
MG 349 Human Resources Management	5 quarter hours	___
MG 375 Organizational Behavior	5 quarter hours	___
SO 304 Sociology of Work (or an approved business elective)	5 quarter hours	___
TOTAL HOURS IN MAJOR	40 quarter hours	

(Similar programs can be tailored to the needs of the student who has been certified in one of the para-medical fields such as dental hygiene, medical records, medical technology, health physicist, animal health technology, and others.)

4. No less than 96 quarter hours of academic subject matter, in addition to the nursing school courses, are required for this program.
5. Maximum allowed hours will vary with each individual and must comply with general college requirements (p. 19).
6. A minor is **not** required.

SCIENCE MANAGEMENT MAJOR

Athens State College offers to interested students a Bachelor of Science degree with a major in Science Management. In addition to selected Business Administration courses, the major requires a concentration of coursework in either Biology, Chemistry, Mathematics, Physics, Instrumentation, or Computer Science. The Science Management major is designed to prepare students for an M.B.A. program or for a career in a technically oriented business field. Regarding program requirements and recommended electives, the student should consult with his or her School of Science and Mathematics faculty advisor.

Bachelor of Science - Science Management Major
MAJOR CODE: 52.9999 *B-G*

Program components for the Bachelor of Science degree with a major in Science and Management include:

1. Applicable general college requirements (p. 19).
2. **GENERAL COLLEGE REQUIREMENTS:**

English Composition	10 quarter hours	___ ___
Humanities Electives (Must represent three of the following five areas: Art, Literature, Humanities, Music, Religion/Philosophy)	20 quarter hours	___ ___ ___ ___
Social Science Electives (Other than Religion/Philosophy)	10 quarter hours	___ ___
Behavioral Science Electives	10 quarter hours	___ ___
TOTAL GENERAL EDUCATION HOURS:	50 quarter hours	

3. **MAJOR REQUIREMENTS:**

Business Administration and Accounting Course Requirements:

Principles of Accounting I and II or AC 300 Fundamentals of Accounting, and AC 301 Decision Accounting	10 quarter hours	___ ___
GBA 305 Statistical Methods of Business 1	5 quarter hours	___
GBA 311 The Legal Environment of Business	5 quarter hours	___
MG 375 Organizational Behavior	5 quarter hours	___
MG 346 Principles of Management	5 quarter hours	___
MK 331 Marketing Principles	5 quarter hours	___
TOTAL BUSINESS HOURS:	45 quarter hours	

Natural Science and Mathematics Course Requirements:

Calculus	10 quarter hours	___ ___
MA 308 Discrete Mathematics	5 quarter hours	___
MA 309 Business Calculus	5 quarter hours	___
Chemistry I, II, III	15-18 quarter hours	___ ___ ___
Physics (Calculus Based)	15 quarter hours	___ ___ ___
FORTRAN or Pascal Programming	5 quarter hours	___
TOTAL NATURAL SCIENCE AND MATHEMATICS HOURS:	55-58 quarter hours	

4. The student must also complete one of the following concentrations of which at least twenty quarter hours must be taken at Athens State College.

Biology Concentration (52.9999B):

General Biology	15 quarter hours	___ ___ ___
Cell Biology	5-6 quarter hours	___
General Ecology	5-6 quarter hours	___
Genetics	5-6 quarter hours	___
Biology Electives	10-12 quarter hours	___ ___
TOTAL HOURS IN CONCENTRATION:	40-45 quarter hours	

Chemistry Concentration (52.9999C):

Organic Chemistry	15-18 quarter hours	___ ___ ___
Analytical Chemistry	6 quarter hours	___
Physical Chemistry	6 quarter hours	___
Chemistry Electives	10 quarter hours	___ ___
TOTAL HOURS IN CONCENTRATION:	37-40 quarter hours	

Physics Concentation (52.9999G):

Calculus III, IV	10 quarter hours	___ ___
Differential Equations	5 quarter hours	___
Upper Level Physics Electives	25 quarter hours	___ ___ ___ ___ ___
TOTAL HOURS IN CONCENTRATION:	40 quarter hours	

Mathematics Concentration (52.9999F):

Calculus III, IV	10 quarter hours	___ ___
Mathematics Electives (Upper level)	20 quarter hours	___ ___ ___ ___
TOTAL HOURS IN CONCENTRATION:	40 quarter hours	___ ___ ___ ___ ___ ___ ___ ___

Instrumentation Concentration (52.9999D):

Eight approved five (5) quarter hour courses in Instrumentation:	40 quarter hours	___ ___ ___ ___ ___ ___ ___ ___
TOTAL HOURS IN CONCENTRATION:	40 quarter hours	___ ___ ___ ___ ___ ___ ___ ___

Computer Science Concentration (52.9999D):

CS 312 Computer Programming I (Pascal	5 quarter hours	___
CIS 320 COBOL Programming or CS 330 FORTRAN Programming	5 quarter hours	___
CS 340 Introduction to Assembly Language	5 quarter hours	___
CIS 365 Database Programming	5 quarter hours	___
CIS 440 Database Systems	5 quarter hours	___
CS 451 Software Engineering I	5 quarter hours	___
CS 452 Software Engineering II	5 quarter hours	___
Electives in Computer Science (Upper Level)	10 quarter hours	___ ___
TOTAL HOURS IN CONCENTRATION	45 quarter hours	

5. A minor is **not** required.

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COURSE DESCRIPTIONS

Accounting (AC) Courses

AC 300 **Fundamentals of Accounting.** (5 quarter hours)
A survey of accounting concepts for non-accounting majors.

AC 301 **Decision Accounting.** (5 quarter hours)
Prerequisite: AC 300 or Principles of Accounting I. An examination of how business professionals use accounting concepts and data to facilitate effective decision making.

AC 320 **Computer Augmented Accounting. (Lab Fee.)** (5 quarter hours)
Prerequisite: GBA 301 Microcomputer Applications for Business or equivalent, Principles of Accounting I and II. An application of an industry standard accounting software package and spreadsheets for small and medium-sized business firms. The student will gain experience in using a standard general ledger package and spreadsheet applications.

AC 321 **Intermediate Accounting I. (Lab Fee.)** (5 quarter hours)
Prerequisite: Principles of Accounting I & II or equivalent. A survey of the financial reporting process, a detailed study of financial statements, and an analysis of generally accepted accounting principles.

AC 322 **Intermediate Accounting II. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 321. An in-depth study of accounting theory applicable to the major asset categories ofa business entity.

AC 323 **Intermediate Accounting III. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 322. A review of the application of accounting theory to liability and stockholders equity balance sheet categories, culminating with a study of special purpose financial statements.

AC 341 **Governmental and Not-For-Profit Accounting. (Lab Fee.)** (5 quarter hours)
Prerequisite: Principles of Accounting I & II. An introduction to fund and budgetary accounting for government and not-for-profit organizations in education, health care and social welfare agencies.

AC 361 **Federal Tax Accounting. (Lab Fee.)** (5 quarter hours)
Prerequisite: Principles of Accounting I & II. An overview of federal tax laws and regulations applicable to individuals and sole proprietors.

AC 371 Cost Accounting. (Lab Fee.) (5 quarter hours)
Prerequisite: Principles of Accounting I & II. An introduction to the preparation and interpretation of cost accounting data to be used by management in the twin entrepreneurial functions of planning and control. Job order, process and standard cost systems will be studied in depth.

AC 401 **Auditing. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 322. Auditing theory and practice, with emphasis given to the function of the audit in the certification of financial statements by an independent auditor.

AC 425 **Accounting Information Systems. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 323, and AC 371. Fundamentals of information systems technology, techniques, and capabilities, particularly with respect to the use of accounting information in a computer environment.

AC 431 **Advanced Accounting. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 323. A study of advanced accounting concepts including partnerships, foreign currency transaction, international accounting, estates and trusts, bankruptcy, and related topics.

AC 442 **Auditing II. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 401. An advanced study of auditing theory and practice.

AC 460 **Directed Study/Research in Accounting.** (1-5 quarter hours)
To be offered on occasion of student demand or need.

AC 461 **Federal Tax Accounting II. (Lab Fee.)** (5 quarter hours)
Prerequisite: AC 361. The application of the federal income tax law as it applies to partnerships and corporations, with emphasis on the differences which exist between financial and tax accounting.

Anthropology (AN) Courses

AN 301 Principles of Cultural Anthropology. (5 quarter hours)
Presents the cultures of isolated societies studied by early 20th century anthropologists and the current effects of contacts and diffusions of the industrial and post-industrial societies on the formerly isolated cultures.

Art (AR) Courses

***AR 300 Drawing.** (5 quarter hours)
An introduction to drawing techniques with emphasis upon developing drawing skills, perceptual abilities and the ability to think visually and critically.

***AR 301 Painting. (Lab fee.)** (5 quarter hours)
An introduction to basic oil painting theory and techniques and a study of the history of painting. Museum visits and critiques will be included.

AR 309 Art for Teachers N-6. (Lab Fee.) (5 quarter hours)
A course designed to prepare the classroom teacher in the basics of art education theory and practice; to give the classroom teacher experience with and confidence in his or her ability to use art materials and to lead the students in art activities; to arrive at a philosophy of Art education; to learn to plan, motivate and evaluate art experiences; and to learn the relationship between the child's development and his visual representation.

AR 311 Landscape Painting and Drawing. (5 quarter hours)
Prerequisite: AR 300, 301 or equivalent. The environment as a subject for drawing and painting in a variety of media. Direct study from nature.

AR 312 Figure Drawing. (Lab Fee.) (5 quarter hours)
Prerequisite: AR 300 or equivalent. Emphasis upon the human figure with the use of nude models in the course.

AR 313 Portrait Drawing and Painting. (Lab Fee.) (5 quarter hours)
Using a variety of media to develop skills in portraiture.

AR 314 Painting in Water Media. (5 quarter hours)
Prerequisite: AR 300 Drawing. Students will use transparent and opaque water color techniques and a variety of subject matter to become more proficient painters.

***AR 315 Ceramics I. (Lab Fee.)** (5 quarter hours)
An introduction to basic ceramic techniques with emphasis on hand-constructed ceramics. The course will include a study of the history of ceramics from prehistory to modern times.

AR 316 Ceramics II. *Art majors only.* (Lab Fee.) (5 quarter hours)
Emphasis upon developing the student's skills in using the potter's wheel and in using hand-building methods to create personal forms and imagery.

AR 317 Ceramic Sculpture. (Lab Fee.) (5 quarter hours)
An exploration of sculptural media, particularly clay and terra cotta.

AR/EH 321 Set Design. (Lab Fee.) (5 quarter hours)
This course will cover the designing of a stage set from conception through mock-up, construction and implementation. Set(s) will be designed for actual use. Material covered will be pertinent to productions ranging from children's plays to community and college theater. Course usually runs concurrently with drama production.

***AR 330 Photography I. (Lab Fee.)** (5 quarter hours)
Note: This course requires the student to purchase supplies in addition to the lab fee; students will need a SLR 35mm camera with adjustable f/stop, shutter speed and focus and a working internal light meter. An exploration of basic techniques in black and white photography with emphasis upon creativity and darkroom activities. The course will include criticizing and aesthetics.

*Humanities Elective

AR 331 Photography II. (Lab Fee.) (5 quarter hours)
Note: This course requires the student to purchase supplies in addition to the lab fee. Advanced theory and practice in primarily black and white photography.

***AR 340 The Visual Arts.** (5 quarter hours)
An analysis and examination of the visual arts in terms of both stylistic development and the relationship between the visual arts and other humanistic endeavors. The development of art from pre-history to the 20th century. Students will have studio experiences and be required to make museum visits.

***AR 341 Ancient Art History.** (5 quarter hours)
The history of art including pre-history, Egyptian, Sumerian, Assyrian, Babylonian, Persia, Early Chinese, Greek and pre-Christian Roman.

***AR 342 Medieval Art History.** (5 quarter hours)
The history of art from the first century to the Renaissance, including Roman, Early Christian, the Dark Ages, Islamic, Byzantine Art, Romanesque and Gothic Art.

***AR 343 Renaissance Art History.** (5 quarter hours)
The history of Art from the Early Renaissance through the first part of the 19th century including the Renaissance, Mannerism, Baroque, Neo Classicism and 19th Century Realism and Romanticism.

AR 401 Advanced Figure Drawing. (Lab Fee.) (5 quarter hours)
Prerequisite: AR 312. A continuation of Figure Drawing, building on the techniques learned in AR 312 to create a finished product.

AR 402 Portfolio and Exhibition. (1 quarter hour)
A required course for art major. Advanced students will compile a professional portfolio and hang their senior exhibition. To be taken one of last two quarters of the senior year.

AR 403 Directed Studies in Art Research. (2 quarter hours)
To familiarize the students with the proper utilization of the basic reference books, abstracts, monographs and indexes for the purpose of college writing and research in the content area of art.

AR 404, 405 Art Studio in Photography. (5 quarter hours each)
Prerequisite: AR 418 is prerequisite to AR 404 and AR 404 is prerequisite to AR 405. This course is designed to enable the student to produce works in photography making use of personal innovations, carefully considered form, techniques and materials. Skills in art analysis and criticism will be used regularly. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 406, 407 Art Studio in Graphics. (5 quarter hours each)
Prerequisite: AR 405. This course is designed to enable the student to produce works in graphic art making use of personal innovations, carefully considered form, techniques and materials. Skills in art analysis and criticism will be used regularly. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 408 Printmaking. (5 quarter hours)
Development of techniques in various print media.

AR 410 Layout and Design. (Lab included.) (5 quarter hours)
Prerequisite: Associate Degree in Art or equivalent. Concepts will be covered from visualizations through finished projects. Problems in composition in commercial as well as fine arts projects will be assigned. This course is designed to produce a portfolio of finished projects.

AR 418,419,420 Art Studio. (5 quarter hours each)
Prerequisite: Art major/minor or permission of instructor; AR 418 is a prerequisite of AR 419, 420, 404, 405, 406 and 407. These courses cluster three studio courses designed to enable the student to produce works in visual art making use of personal innovations, carefully considered form, techniques and materials. Skills in art analysis and criticism will be used regularly. AR 418 will involve a significant amount of criticism of historical and contemporary art works. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

*Humanities Elective

***AR 423 History of Modern Art.** (5 quarter hours)
The post-impressionist period through 1945.

***AR 424 Late Modern Art History.** (5 quarter hours). 1945 to present.

AR 430 Advanced Drawing and Design. (5 quarter hours). Advanced concepts in drawing and composition.

AR 441, 442 Special Topics in Art. (1-5 quarter hours). To be offered on occasion of student demand or need.

AR 450 Internship in Art. (1-5 quarter hours)
An internship program in which the student will receive training with a commercial enterprise relating to his or her area of experience.

AR 460 Special Workshops in Arts and Crafts. (1-5 quarter hours)

Biology (BI) Courses

BI 301 Cell Structure and Function. (Lab Fee.) (6 quarter hours)
Prerequisite: Principles of Biology, introductory chemistry with lab, or CH 301 or CH 303, or equivalent, or consent of instructor. This course considers the molecular organization of basic cellular components, including membranes, nucleic acids, and proteins. How these elements are assembled into organelles and other cellular structures is examined. The mechanisms of enzyme and organelle function and coordination are explored.

BI 302 Genetics. (Lab Fee.) (6 quarter hours)
Prerequisite: Principles of Biology, introductory chemistry with lab, or CH 301, or CH 303, or equivalent, or consent of instructor. An up-to-date treatment of genetics within the bounds of a one-term course, emphasizing the structure, function, and regulation of genes, recombinant DNA techniques and applications, principles and patterns of Mendelian inheritance, and population genetics.

BI 303 General Ecology. (Lab Fee.) (6 quarter hours)
Prerequisite: Principles of Biology, Plant Biology, Animal Biology, or consent of instructor. Study of the living organisms on Earth and how they interact with one another and with their nonliving environments. These interactions are investigated at the individual, population, community, and ecosystem levels. Qualitative, quantitative, and theoretical aspects of ecology will be emphasized.

BI 321 Conservation Biology. (5 quarter hours)
A synthetic discipline addressing loss of biological diversity throughout the world, incorporating population biology, community ecology, evolution, genetics, taxonomy, paleontology, zoo management, wildlife ecology, agriculture, forestry, and elements of history, philosophy, economics, anthropology, and public policy.

BI 322 Human Genetics. (Lab Fee.) (5 quarter hours)
Prerequisite: Genetics or consent of instructor. Presents the principles of human genetics and considers the social, cultural, and ethical implications of these principles as they are applied to the human condition.

BI 323 Human Sexuality. (Also listed as GS 323.) (5 quarter hours)
May not be used to fulfill B.S. or B.S.Ed. biology major requirements. A comprehensive and integrated approach to human sexuality emphasizing biological aspects.

BI 341 Biogeography. (Also listed as GO 341; formerly titled Natural Geography.) (5 quarter hours)
Prerequisite: General Ecology or consent of instructor. Presents the biological aspects of geography. Designed to instill a greater appreciation and awareness of man's physical environment and of the mechanisms which control the distribution of plants and animals on our planet.

BI 342 Economic Botany. (Formerly titled Plants and Civilization.) (5 quarter hours)
Presents the important role plants have played in the development of civilizations and cultures, past and present. Emphasis is placed on the origins of agriculture and domestication of plants, on the development of early irrigation and rainfall agriculture civilizations, on the importance of plants in religion, medicine, commerce, politics, and war, and on the future of plants in relation to man.

BI 410 **Biochemistry.** (5 quarter hours)
Prerequisite: CH 305 or CH 312. A study of proteins, carbohydrates, lipids and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations are included.

BI 411 **Invertebrate Systematics and Morphology. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Animal Biology, or consent of instructor. Inclusive and in-depth survey of the invertebrate animals covering all phyla from the protozoa through echinoderms. Emphasis on the morphological structures characterizing each phylum, on the systematic approach taken in each phylum, and on phylogenetic relationships among the various phyla. Labs emphasize collection techniques, identifications, and proper archiving of specimens.

BI 412 **Invertebrate Development and Function. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Animal Biology or consent of instructor. Study of developmental and functional aspects of invertebrates. Emphasis on feeding, locomotion, respiration, excretion, defense, reproduction, development, and control. All major taxonomic groups of invertebrates will be considered. Labs emphasize structural-functional relationships.

BI 413 **Field Vertebrate Zoology. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Animal Biology or consent of instructor. Presents the principles of vertebrate systematic biology, factors governing distribution of vertebrates, methods used by vertebrates to solve environmental problems, reproductive physiology and behavior, and population dynamics. Special emphasis upon the collection and identification of local aquatic and terrestrial vertebrates.

BI 414 **Comparative Vertebrate Anatomy. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Animal Biology, or consent of instructor. Presents functional and comparative morphology of chordates with emphasis on developmental and evolutionary perspectives. Labs emphasize structural-functional relationships.

BI 420 **Ichthyology. (Lab Fee.)** (5 quarter hours)
Prerequisite: Principles of Biology, Animal Biology, and either BI 413 Field Vertebrate Zoology or BI 414 Comparative Vertebrate Anatomy, or consent of the instructor. A course in systematic and ecological ichthyology. Introduces the diversity of fishes, showing the position and content of major groups, their classification, relationships, and basic structure, with emphasis on living fishes, particularly those in the Tennessee Valley region of North Alabama. Additional topics include fish genetics, evolution, systematics, behavior, ecology, and ichthyogeography.

BI 421 **Herpetology. (Lab Fee.)** (5 quarter hours)
Prerequisite: Principles of Biology, Animal Biology, and either BI 413 Field Vertebrate Zoology or BI 414 Comparative Vertebrate Anatomy, or consent of instructor.) A course in systematic and ecological herpetology. Introduces the diversity of amphibians and reptiles, showing the position and content of major groups, their classification, relationships, and basic structure, with emphasis on living amphibians and reptiles, particularly those in the Tennessee Valley region of North Alabama. Additional topics include genetics, evolution, systematics, distribution, behavior, and ecology of amphibians and reptiles.

BI 424 **Animal Physiology. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Animal Biology, introductory chemistry with lab, or CH 301, or CH 303, or equivalent, or consent of instructor. This course examines the mechanisms of various physiological processes in animals, including humans, at the molecular/cellular level. These processes include muscle and nerve action, signal transduction via hormones, the operation of the immune system, including the role of the HIV virus in inducing AIDS, and an examination of the processes of tumor formation and the development of cancer.

BI 431 **Plant Systematics and Morphology. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Plant Biology or consent of instructor. Inclusive and in-depth survey of the nonvascular and vascular plants. Emphasis on the morphological structures characterizing each division, subdivision, class, and subclass of plants, on the systematic approach taken at each level of taxonomic hierarchy, and on the phylogenetic relationships among the various groups of plants. Labs emphasize collection techniques, identifications, and proper archiving of specimens.

BI 432 **Plant Development and Function. (Lab Fee.)** (6 quarter hours)
Prerequisite: Principles of Biology, Plant Biology or consent of instructor. Study of the developmental and functional aspects of plant biology. Emphasis on the embryology and development, physiology, genetics, reproduction, and organismal ecology of plants. All major taxonomic groups of plants will be considered.

BI 440 Biotechnology. (Lab Fee.) (5 quarter hours)
Prerequisite: Principles of Biology, BI 302 Genetics, or equivalent. This laboratory-based course explores the theory and application of several techniques fundamental to biotechnology and molecular biology. Exercises include manipulation of bacterial strains, viruses and plasmids, advanced DNA cloning, Southern blotting of genomic DNA, protein purification, and the polymerase chain reaction. Application of these techniques to a range of biological sciences will be explored.

BI 441,442,443,444 Special Topics in Biology. (1-5 quarter hours) To be offered on occasion of student demand or need.

BI 450 Research Seminar. (1 quarter hour)
Designed to allow B.S. and B.S.Ed. Biology majors to present the results of their laboratory or field research project to other biology majors, the faculty, and the campus at large.

BI 460 Directed Study/Research in Biology. (1-5 quarter hours) To be offered on occasion of student demand or need.

Chemistry (CH) Courses

CH 301 Introductory Chemistry. (Lab Fee.) (6 quarter hours)
Prerequisite: College Algebra. A basic course designed for instrumentation majors. Elementary concepts of atomic theory, thermodynamics, kinetics, acids, bases, and equilibrium will be emphasized. This course will not serve as upper level chemistry for science majors nor as a substitute for general chemistry.

CH 302 Metallurgy. (Lab Fee.) (5 quarter hours)
Prerequisite: CH 301 or General Chemistry. A study of the behavior of metals and alloys especially the refining, manufacture and testing of these materials.

CH 303,304 Chemistry I, II. (Lab Fee.) (6 quarter hours each)
A study of chemical principles important to the student of scientific technologies. The emphasis is on inorganic chemistry to include atomic theory, the periodic table, thermochemistry, kinetics, equilibrium, phase changes, oxidation-reduction, acids and bases plus other principles with an emphasis on problem solving. Laboratory includes inorganic qualitative analysis and classical quantitative analysis. CH 303/304 and 305 may serve as the first course in chemistry for other science and math majors.

CH 305 Chemistry III. (Lab Fee.) (6 quarter hours)
Prerequisite: CH 303/304. An introduction to organic molecules and their functional groups. Some characteristic reactions also included. This course is not a required prerequisite for CH 311 and may be omitted if the CH 311/312/313 sequence is to be taken.

CH 311,312,313 Organic Chemistry. (Lab Fee.) (6 quarter hours ea.)
Prerequisite: One year college chemistry. A basic study of aliphatic and aromatic compounds, their properties, preparation, and reactions with emphasis on theory and mechanisms of reaction. Laboratory includes organic qualitative analysis.

CH 314,315 Polymer Science. (Lab Fee.) (6 quarter hours each)
Prerequisite: CH 305 or CH 313. A study of the synthesis, characterization, testing and reactions of polymers. The study will include step-reaction polymerization, ionic chain reactions, free radical chain polymerization, copolymerization and inorganic polymers, in addition to the effects of additives and fillers.

CH 324 Analytical Chemistry. (Lab Fee.) (6 quarter hours)
Prerequisite: One year of college chemistry. Classical volumetric techniques in chemical analysis, modern methods of chemical separation and basic instrumentation techniques.

CH 410 Instrumental Analysis. (5 quarter hours)
Prerequisite: CH 305 and CH 324; co-requisite: CH410. Theoretical application of modern instrumentation to problems in analytical chemistry. Optical, electrochemical, and other instrumentation techniques are covered.

CH410L Instrumental Analysis Lab. (1 quarter hour)
Co-requisite: CH410. Practical application of modern instrumentation to problems in analytical chemistry.

CH 413 Biochemistry.. (5 quarter hours)
Prerequisite: CH 305 or CH 312. A study of proteins, carbohydrates, lipids and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations are included.

CH 430 Physical Chemistry. (Lab Fee.) (6 quarter hours)
Prerequisite: MA 304, CH 305, PY 301. (PY 306 may be substituted for this course).

CH 431,432 Physical Chemistry. (Lab Fee.) (6 quarter hours each)
Prerequisite: CH 430. An application of the laws and principles of physics and mathematics to the study of phenomena and concepts such as equilibria, kinetics, molecular structure and spectroscopy.

CH 441,442,443,444 Special Topics in Chemistry. (1-5 quarter hours) To be offered on occasion of student demand or need.

CH 460 Directed Study/Research in Chemistry. (1-5 quarter hours)
To be offered on occasion of student demand or need. This course may consist of an instrumentation internship that may be substituted for CH410L.

Cooperative Education (CP) Courses

Prerequisite: A minimum overall grade point average of 2.5 and prior approval of the Co-Op Education Office. Courses must be taken in sequential order.

Parallel Plan Courses

CP 301 Co-Op Work Experience I. (2 quarter hours)
This is the first in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of the student's productivity and content of a descriptive report submitted by the student.

CP 302 Co-Op Work Experience II. (2 quarter hours)
The second in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 303 Co-Op Work Experience III. (2 quarter hours)
The third in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 304 Co-Op Work Experience IV. (2 quarter hours)
The fourth in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 305 Co-Op Work Experience V. (2 quarter hours)
The fifth in a series of courses wherein the students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 306 Co-Op Work Experience VI. (2 quarter hours)
The last in a series of courses wherein the students work on part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

Alternating Plan Courses

CP 401 Co-Op Work Experience I. (3 quarter hours)
The first in a series of courses wherein the student works on a full-time basis in a job related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 402 Co-Op Work Experience II. (3 quarter hours)
The second in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 403 Co-Op Work Experience III. (3 quarter hours)
The third in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 404 Co-Op Work Experience IV. (3 quarter hours)
The fourth in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

Special Arranged Courses

CP 410A-L Co-Op Work Experience 1-12. (1 quarter hour)
A series of courses wherein the student works a minimum of 20 hours in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a report submitted by the student.

Computer Science (CS) Courses

CS 301 Introduction to Computers and Computer Systems. (Lab Fee). (5 quarter hours)
No credit towards a major or minor in CS. A survey of the applications of computers and the impact of computers on the individual and society. A brief discussion of binary number systems and character codes. Overview of computer hardware and a description of the major components of a computer. Introduction to the concept of software life cycle and methods for structured problem solving. Lab assignments will familiarize the student with the use of the computer, typical commands to the operating system, the use of a text editor, and methods for compiling and debugging a program.

CS 309 Introduction to Digital Logic Design. (5 quarter hours)
Prerequisite: MA 308; Co-requisite: CS 309L. A comprehensive introduction to Boolean Algebra and methods for designing circuits which implement Boolean expressions. Topics include: binary numbers and codes, axioms and theorems of Boolean Algebra, standard algebraic forms of Boolean expressions, the use of methods such as Karnaugh Maps and the Quine-McCluskey procedures for simplification of Boolean expressions, analysis and design of combinational and sequential circuits, register operations, and an introduction to fault tolerant design.

CS 309L Digital Design Lab I. (0 credit hours)
Co-requisite: CS 309. Lab experiments in the design of combinational and simple sequential circuits. Lab will meet two hours per week. Must be scheduled along with CS 309 except by students who have taken IT 316 or IT 317.

CS 312 Computer Programming I (Pascal). (Lab Fee.) (5 quarter hours)
Prerequisite: College Algebra and CIS 301 or equivalent. An introduction to structured programming problem solving techniques using top-down design with procedures and functions. Use of the following Pascal statements and structures: If .. Then, For, While, Repeat .. Until, Case, Arrays, Records, Strings, and Text Files. Emphasizes systematic algorithm development including as examples algorithms for basic searching and sorting. The course will require hands-on development of Pascal programs. **(This course replaces CS 315.)**

CS 314 Computer Programming II (Introduction to Data Structures). (Lab Fee.) (5 quarter hours)
Prerequisite: CS 312. A continuation of CS 312 (Pascal) with an emphasis on abstraction and software engineering techniques. Covers advanced programming and problem solving techniques including pointers and recursion. Introduction to basic data structures such as linked lists, stacks, queues, and binary trees. Introduction to advanced searching and sorting algorithms. Transfer students desiring entry into this course will be required to demonstrate proficiency in Pascal equivalent to that taught in CS 312. **This course replaces CS 435 Data Structures.**

CS 316 ADA Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 314. Introduction to the basic concepts of the ADA language including conceptual overview and introduction to the design rationale for the ADA programming language. Discussion of terminology, data types and the ADA data typing rules, object declarations and rules of object visibility, functions, and subprograms. A brief discussion of the concepts of data abstraction, packages, and tasks.

CS 317 "C" Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 312 or Instructor approval. Introduction to the C programming language and its use as a system's programming language. Basic data types, including numeric and bit types, basic operators, statements and control flow, pointers, and structures, use of binary and text I/O.

CIS 320 COBOL Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CIS 312 or equivalent. Introduces computer applications in business. Emphasizes the use of the COBOL programming language and structured programming techniques for data processing and business modeling.

CIS 325 Applied Spreadsheet. (Lab Fee.) (5 quarter hours)
Prerequisite: CIS 301 or equivalent. Detailed study of advanced techniques in problem solving by use of electronic spreadsheets, business graphics software and personal data management. Covers application of spreadsheet commands, file management, generating specialized reports, generating and displaying graphs that relate to both business and scientific problems. The student will gain experience in use of a number of spreadsheet tools and in choosing the spreadsheet most appropriate for a given problem.

CS 330 FORTRAN Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 308. Introduction to computer applications in scientific research. Introduction to the FORTRAN language and its use in both numerical and non-numerical applications.

CS 340 Introduction to Assembly Language. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 309 and CS 314. An introduction to computer architecture at the assembly language level. Methods for representing data in computers, the study of the assembly language of a specific computer. Studies addressing modes, instruction formats, and control structures of a typical assembly language. Introduction to the use of an assembler. **This course replaces CS 341 Micro-Assembly Language.**

CS 355 Data Organization and File Processing. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 314. Review of data structures including linked lists and binary trees. Introduction to AVL trees, B-trees, and B+-trees. Indexing, simple index structures, inverted lists, hashing, and multi-key files. Basic algorithms and data structures for modern file structures such as ISAM and VSAM

CIS 365 Database Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CIS 301 or equivalent. Detailed study of advanced methodologies in problem solving by the application of relational database management systems. Covers application of various structured information processing, database construction and management, generation of specialized reports that relate to both business and scientific database management. Comparison of several database management tools such as dBase III+, Informix, and Oracle. The student will gain experience in using each of these tools and in choosing the software most appropriate for a given problem. **This course replaces CS 445 Advanced DBase.**

CS 401 Applied Data Communications. (Also listed as IT 401.) (5 quarter hours)
(CS students should be cautioned that this is a technical course.) This technical course is designed to acquaint the student with the latest data communication terminology, theory, technology, standards, and equipment.

CS 409 Introduction to Computer Architecture. (5 quarter hours)
Prerequisite: CS 340; Corequisite: CS 409L. A comprehensive study of the architecture of a hypothetical digital computer. The course will present an overview of computer architecture and then a detailed design of each major functional subsystem, including: memory, central processing unit (control unit and arithmetic-logic unit), Input/Output devices, and hardware for the support of the Operating System. Study of the implications of computer architecture for systems programming and Operating System design.

CS 409L Digital Design Lab II. (0 quarter hours)
Corequisite: CS 409. Lab experiments in the design of sequential circuits and other basic components of a CPU. Labs will meet two hours per week. This must be scheduled along with CS 409 except by students who have taken IT 317.

CS 414 Programming Languages. (Lab Fee) (5 quarter hours)
Prerequisite: CS 340. This course is an in-depth study of similarities and differences of modern programming languages such as Pascal, FORTRAN, C, ADA, and LISP. Emphasis is on the implementation of basic language features and in the choice of a language most appropriate for a given problem. Programming assignments will require the use of the unique features of the various languages. **This course replaces CS 335, Programming Languages.**

CS 415 Operating Systems. (5 quarter hours)
Prerequisite: CS 317, CS 355, CS 409, and CS 414. A detailed study of the software components of an operating system and their organization. Review of computer hardware and its support of the functions of an operating system. Introduction to the concept of processes and their interaction in an operating system. Other topics include: deadlock and indefinite postponement, management of real memory, organization and management of virtual memory, scheduling of the CPU, interaction with a file system, and the management of disk drives. An introduction to operating systems security. Case studies from UNIX, MSDOS, VAX/VMS, and OS/2

CS 416 Advanced ADA Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 316. A continuation of CS 316 with emphasis on the ADA implementations of abstract data types and concurrent programming. Topics include exceptions and exception handling, the use of packages for information hiding, the use of tasks and task data types to implement concurrent programs, generic packages and how to instantiate them, representation clauses and implementation dependent features. Introduction to the MIL-STD-2167A.

CS 417 Advanced "C" Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 317. Advanced topics in C and C++ programming including the use of standard system and file manipulation functions, dynamic memory allocation, and programming the graphics interface. Methods of interfacing to assembly language routines. Introduction to object oriented programming, and programming in a windows environment.

CIS 420 Advanced COBOL Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CIS 320 or CS 355. Advanced COBOL features including searching, sorting, report generation, and string processing will be covered. Programs to create and update sequential, indexed, and relative files will be developed and implemented by the student.

CS 423 Computer Graphics. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 312 and MA 308. An introduction to the basic concepts and tools of computer graphics. Discussion of graphic devices and the use of software to control them. Review of coordinate systems, vectors and matrix algebra, and transformations on pictures. Basics of drawing curves and elementary geometric figures. Windowing and clipping. Introduction to three dimensional graphics.

CS 426 Introduction to Artificial Intelligence. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 314 & PH 312. Introduction to application areas: information-processing, robots, natural language systems and automatic programming. Includes basic methodologies and techniques, modeling and representation, problem solving, languages and systems.

CS 430 Advanced FORTRAN Programming. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 330. This course will focus on two topics: the writing of efficient FORTRAN programs and the writing of large FORTRAN systems. Topics studied will include: the impact of the architecture and language implementation on program design, design of programs to execute on vectorized machines such as the CRAY, and the design and writing of large scientific systems.

CIS 440 Database Systems. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 314. Introduces database systems, their utilization and implementation. Concepts studied include organization, communications, integrity and security. Relational, hierarchical and network database organizations are compared. The formal requirements of the relational model are presented.

CIS/CS 441, 442, 443, 444 Special Topics in Computer Information Systems/Computer Science. (1-5 quarter hours)
Topics which may be covered are special programming languages, compilers, system design, graphics and special applications.

CS 451 Software Engineering I. (5 quarter hours)
Prerequisite: 15 quarter hours upper level computer science. The course will familiarize the student with the entire software life cycle, spanning the time from conception of the actual requirements, through the analysis, design, and development of the software. The course will study the methodology of software engineering; i.e., the analysis and comparison of methods which use sound engineering principles to develop software which is reliable, cost-effective, and easily maintainable. The course will emphasize the concept of a software development team. Students will be assigned to software development teams solving problems for users outside the computer science department.

CS 452 Software Engineering II. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 451. A continuation of CS 451 which focuses on individual stages in the software development life cycle. Methods for analyzing user requirements and translating these into systems analysis, systems design, and finally the finished software. Software acceptance, validation, and verification including the design of acceptance tests for the

software. Identification and resolution of conflicting requirements such as scheduling, hardware utilization, configuration control, and other constraints. Students will continue as members of the software development teams formed in CS 451 and finish the project begun in that course.

CS 460 Directed Study/Special Computer Science Projects. (1-5 quarter hours)
Prerequisite: 15 hours of upper level computer science and permission of instructor. This course is designed to allow students majoring in computer science to pursue special projects of interest to both the student and instructor. Projects undertaken for this course might well be continuations of projects begun in other courses.

CS 462 Compilers—Design and Construction. (Lab Fee.) (5 quarter hours)
Prerequisite: CS 414. A study of the development and implementation of a compiler. The course concentrates on areas of formal language definition, translation, execution and memory allocation, lexical analysis, syntax analysis, symbol tables, code generation and error detection. The course will include a student project to write a compiler for a subset of Pascal. This course replaces **CS 416 Compilers-Design and Construction.**

CS 472 Data Structures and Algorithm Analysis. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 308, CS 314, and one of CS 316, CS 317, or CS 355. An introduction to the classic methods for designing algorithms. The course will study specific problems such as sorting, graph traversals, and matrix multiplication in order to illustrate these methods. The methods studied will include: Divide and Conquer, Back-Tracking, Branch and Bound, and Dynamic Programming. A brief introduction to computational complexity.

CS 474 Introduction to Formal Language Theory. (5 quarter hours)
Prerequisite: CS 462, and MA 320). Formal definition of programming languages. Examples of formal grammars including methods for language parsing. Study of regular and context-free languages. Definition of automata and their relation to formal language definitions. Other topics will include the Chomsky hierarchy, Church-Turing thesis, and the theory of computability.

Economics (EC) Courses

EC 310 Modern Economics. (Also listed as SS 310.) (5 quarter hours)
A macro examination of the operation of modern economic systems including price determination, aggregate demand and supply theory, public policy options, and the philosophical foundations of free market and command systems.

EC 311 Economic Geography. (Also listed as GO 311.) (5 quarter hours)
Analysis of the origins, nature and distributions of man's economic activities over the world. Elementary models of economic patterns, processes, and relationships in geographic space are stressed and the relation of these factors to the present position on the nations of the world is emphasized.

EC 320 Introduction to International Commerce. (Also listed as PO 320.) (5 quarter hours)
Examines the international economic system and the challenges faced by multinational corporations in the conduct of international business. Special attention is given to the mechanics of importing and exporting, international finance, and private international law.

EC 321 Money and Banking. (Also listed as SS 321.) (5 quarter hours)
Prerequisite: Principles of Economics. A study of how money, credit, and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of interest rate determination, and recent trends in banking.

EC 348 Labor Economics. (5 quarter hours)
Introduction to labor in the economy and the relationships among workers, management, labor organizations, and public policy.

EC 441,442,443,444 Special Topics in Economics. (1-5 quarter hours) To be offered on occasion of student demand or need.

EC 460 Directed Study/Research in Economics. (1-5 quarter hours)
(Offered at the discretion of the professor with approval of the School Dean.) A course designed to allow students an opportunity to perform research/directed studies.

Education (ED) Courses

ED 300 Foundations of Education. (5 quarter hours)
Required for all teacher-education majors. A survey course designed for the student who expects to prepare for the teaching profession. Includes principles, history, philosophy, and trends in education. (Two full days of observation are required.)

ED 302 Language Development. (5 quarter hours)
An analysis of the language including phonology, syntax, and semantics with emphasis on school applications in reading, grammar, spelling, and composition.

ED303 Professional Education Communication. (5 quarter hours)
This course has a two-fold purpose. As a beginning education course, it is designed to facilitate the acquisition of professional attributes and to improve oral and written communication skills by refining study and research skills, using professional vocabulary, sharing research findings about educational trends and issues, and writing lesson plans. Practice in oral and written language usage will occur through writing and speaking about current educational concerns.

ED 305 Computers and Media for Teachers. (Lab Fee.) (5 quarter hours)
(Should be taken either the first or second quarter at Athens State.) This course is designed to assist prospective teachers to acquire knowledge of technology available to enhance the teaching of the curriculum, including the Alabama Course of Study and textbooks currently used in N-12. The focus of this course includes development of basic knowledge and skills in instructional design, selection of appropriate technology, and applications in all areas of the curriculum N-12. This course has a computer laboratory experience.

ED 306 Computers: A Tool for Teaching. (Lab Fee.) (3 quarter hours)
Prerequisite: fundamental computer concepts. This course is designed to increase the student's ability to use computers in the classroom. Demonstrations and hands-on experiences will include computers with peripheral devices such as scanners, laser discs, CD-ROM, Presentor Plus, still cameras, modems, and multimedia hardware.

ED 310 Principles of Early Childhood Education. (5 quarter hours)
(Prerequisite in Early Childhood Education. This course should be taken the first or second quarter at Athens State.) This course is designed to provide prospective teachers of young children with the historical, theoretical, and practical issues of early childhood education. Emphasis is on early childhood philosophical and sociological foundations, facets of development, principles of learning, trends and issues, and program models. Field experiences are required.

ED 312 The Child and Society. (5 quarter hours)
A course designed to assist prospective teachers to develop understanding and appreciation of various social and ethnic groups and their cultures including the impact of these cultural phenomena on the educative process.

ED 320 Children's Literature. (5 quarter hours)
A survey of current and traditional prose and poetry thought to be applicable to diverse populations of children. Emphasizes the integration of children's literature throughout the curriculum. (Requires storytelling and dramatic presentations in an elementary school setting.)

ED 321 Materials and Methods of Teaching Language Arts in the Primary and Intermediate Grades. (5 quarter hours)
A comprehensive overview of all the language arts including handwriting, grammar, spelling, oral communication, written communication and listening. Course reflects the integrative nature of the language arts; the need for wholeness; the importance of being able to transfer skills, abilities, and attitudes learned in one context to another.

ED 323 Reading I: Materials and Methods of Teaching Beginning Reading. (5 quarter hours)
An in-depth study of early literacy development; word identification strategies including phonics, structural analysis, contextual analysis, and whole word methodology; various approaches to reading including the language experience and basal reader approaches and the uses of computers in the reading/writing program.

ED 324 Teaching Mathematics to the Young Child. (Lab Fee.). (5 quarter hours)
A course designed to assist prospective teachers of young children in presenting early mathematical concepts and skills. Includes the application of psychological principles to the teaching and learning of mathematics. (Observations in K-3 math classes in accredited schools.)

ED 331 Professional Education for Teaching Middle and High School. (5 quarter hours)
This beginning education course is designed to facilitate the acquisition of professional attributes, and to improve oral and written communication skills by refining study and research skills, using professional vocabulary, sharing research findings

about educational trends and issues, and writing lesson plans. Attributes and dispositions will be articulated, defined, and modeled. These dispositions will be encouraged in oral presentations and collegial interactions. Practice in oral and written language usage will occur through writing and speaking about current educational concerns. (Field experiences are required.)

ED 333 Teaching Reading in the Content Areas. (5 quarter hours)
Prerequisite: Admission to the Teacher Education Program for secondary and N-12 major. A course designed for teachers of students in middle school and high school to develop creative instructional strategies to promote reading comprehension, vocabulary development, and study strategies in the fields of humanities, social sciences, natural sciences, physical education, math, learning disabilities, and vocational education. (Field experiences are required.)

ED 361 Measurement and Management. (5 quarter hours)
Prerequisite: Admission to the Teacher Education Program. Course designed to provide future teachers with the skills and attitudes necessary to create a positive learning environment and assist them in being able to develop and implement proper evaluative techniques and to give direction to pupil growth and development. (Field experiences are required.)

ED 406 Computers for Teacher Productivity. (Lab Fee.) (3 quarter hours)
Prerequisite: fundamental computer concepts. This course will focus on increasing the student's ability to use computers as an organizational professional tool to assist in operating a modern classroom. Topics include lesson planning, grade books, test generators, presentation programs, desktop publishing, draw and paint programs, research programs, schedule and calendar programs, etc.

ED 413 Reading II: Materials and Methods of Teaching Reading Comprehension. (Lab Fee.) (5 quarter hours)
Prerequisites for Early Childhood Education and Elementary Education Majors: Admission to the Teacher Education Program, ED 320 Children's Literature and ED 323 Reading 1: Materials and Methods of Teaching Beginning Reading. Utilization of metacognitive strategies to develop reading comprehension processes and to foster the enjoyment of reading through literature-based approaches. The course emphasizes instructional decision-making and critical thinking. Clinical experience required. (One hour of instructing a child and additional time for planning and reflecting are required in a 3:00 - 6:00 p.m. time frame one time per week. The student will use a portfolio management system, trade books, computers, current curriculum resources, and teacher-made materials to instruct a child. At the culmination, the student will conduct a parent conference.)

ED 420 Materials and Methods of Teaching Science. (5 quarter hours)
Prerequisite: Admission to the Teacher Education Program. **(Lab Fee.)** A course designed to provide a study of the science concepts for early childhood education and elementary education. Emphasis placed on materials and methods, processes of discovery, and the role of children as investigators.

ED 423 Materials and Methods of Teaching Social Studies. (5 quarter hours)
Prerequisite: Admission to the Teacher Education Program. A presentation of instructional materials, resources and strategies to be used for teaching social science concepts from the disciplines of economics, geography, history, political science, psychology, and sociology to children in the elementary school. (Ten hours of volunteer service with social service agencies, including those available to children within the community is required.)

ED 424 Materials and Methods of Teaching Mathematics in the Intermediate Grades. (Lab Fee.) (5 quarter hours)
Prerequisites: Admission to the Teacher Education Program and ED 324 Teaching Mathematics to the Young Child. A course designed to provide study of the mathematics skills and concepts in grades 4-6 with an emphasis on materials and methods for instruction. (One hour of instructing a child and additional time for planning and reflecting are required in a 3:00 - 6:00 p.m. time frame one time per week. The student will use a portfolio management system, trade books, computers, current curriculum resources, and teacher-made materials to instruct a child. At the culmination, the student will conduct a parent conference.)

ED 431 Materials and Methods of Teaching in the Middle School/High School. (5 quarter hours)
Prerequisite: Admission to the Teacher Education Program. **(Includes field experiences.)** Course includes the fundamental principles and techniques in planning, implementing, and evaluating learning activities and in selecting and using appropriate materials and equipment. Second phase individualized according to the student's major areas. This course should be taken the quarter prior to the internship. (One full day of field experience in a school and a minimum of 6 hours of direct teaching of at-risk students are required).

ED 470 Early Childhood Curriculum. (5 quarter hours)
Prerequisite: Senior Standing, ED 310, Admission to Teacher Education Program. This is the capstone course for early childhood majors and should be taken the quarter prior to internship. This course is designed to teach the basic principles and considerations underlying planning a developmentally appropriate curriculum for young children (N-3) in all

areas of development. This course examines the content, methods, and materials appropriate for young children and the teacher's role in organizing and integrating the early childhood curriculum. Implications for equipment selection, room arrangements, daily schedules, and learning experiences are discussed. (A field experience in approved school settings is required. Classroom observation and participation in child care centers, nursery schools, Head-Start programs, kindergartens and primary grades in the public school.)

ED 472 Elementary School Curriculum (Methods). (5 quarter hours)
Prerequisite: Senior standing and Admissions to the Teacher Education Program. Must be taken last quarter before internship. The application of a reflective model of teaching which integrates the curriculum through analytical, evaluative, strategic, practical, and communicative skills. Special emphasis will be given to integrating the elementary school curriculum to accommodate the needs of a diverse population. (Field experiences are required.)

Ten Week Internship: (Lab Fee). (15 quarter hours)
Prerequisite: Senior standing and admission to the Teacher Education Program. Ten week internship program of fifty full days. Culminating experience of the Teacher Education Program. Practical experience in teaching classes in State accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance required.

ED 480 Internship in Early Childhood Education
ED 482 Internship in Elementary Education
ED 484 Internship in Middle School Education
ED 486 Internship in High School Education

NOTE: Restrictions apply to permission to enroll. Restrictions include completion of professional education and specialization courses, qualifying GPA, and removal of grades below a C and incompletes.

ED 488 Internship in N-12 Education. (Lab Fee.) (15 quarter hours)
Prerequisite: Senior standing and admission to the Teacher Education Program. Ten week internship program of fifty full days for physical education and special education majors. Culminating experience of the Teacher Education Program. Practical experience in teaching classes in State accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Five weeks in an elementary school and five weeks in a secondary school. Seminar attendance required.

NOTE: Restrictions apply to permission to enroll. Restrictions include completion of professional education and specialization courses, qualifying GPA, and removal of grades below a C and incompletes. See Internship Application form in Certification Office.

Five Week Internship: (Lab Fee.) (8 quarter hours)
Five week Internship programs of twenty-five full days. Program for persons seeking additional certification.

ED 481 Internship in Early Childhood Education
ED 483 Internship in Elementary Education
ED 485 Internship in Middle School Education
ED 487 Internship in High School Education

English (EH) Courses

Ten hours freshman composition prerequisite for all English courses.

EH 303 Journalism I. (5 quarter hours)
(Will not satisfy literature requirement. Designed to fulfill requirements for Language Arts majors.) Study and practical experience with journalistic principles, processes, and practices of the news media, utilizing media outlets both in schools and in the community with special emphasis on work with school publications.

***EH 304 Southern Literature.** (5 quarter hours)
An appreciative and critical survey of the body of fine literature written by and about residents of the American South with a concentration on such writing in the twentieth century. Oral and written student response.

***EH 307 Major Authors (Ancient to Renaissance).** (5 quarter hours)
A survey of contributions to western civilization by the great writers of ancient and medieval times, beginning with the Old Testament and concluding with John Milton. Oral and written student response.

*Humanities Electives

***EH 308 Major Authors (Renaissance through Modern).** (5 quarter hours)
A survey of contributions to western civilization made by the great writers of the sixteenth through the twentieth centuries, beginning with Shakespeare and ending with contemporary writers. Oral and written student response.

***EH 310 Film: History, Development, and Evaluation.** (5 quarter hours)
The history and development of the film as literature and as a particularly American art form, and the student practice in critical evaluation. Films will be viewed and read about, especially those based on literary sources, and students will perform oral and written criticism of them. May include film writing and film making. (Will not satisfy literature requirement.)

EH 311 Drama Production I. (Lab Fee.) (5 quarter hours)
(Will not satisfy literature requirement. Designed to fulfill requirements for Language Arts majors.) Study and practical experience in producing, acting, and directing, or otherwise active participation in stage craft in school or community Theatre. An opportunity exists for qualified students to study with the Alabama Shakespeare Festival Theatre.

***EH 312 Dramatic Literature.** (5 quarter hours)
Selected studies in drama, from classical through contemporary, designed to provide a wide familiarity with dramatic literature. Close study of specific plays. Oral and written student response.

EH 313 Drama Production II. (5 quarter hours)
Prerequisite: EH 311, Drama Production I. An in-depth continuation of Drama Production I, designed for students who plan to teach drama, direct plays, act, or work in technical capacities in school or community productions.

***EH 314 Nineteenth Century British Studies.** (5 quarter hours)
A critical study of the major works of the Romantic and Victorian periods. Oral and written analysis.

***EH 316 American Masterpieces** (5 quarter hours)
A critical survey of the major works of American literature form the colonial period to the present. Oral and written analysis.

EH 320 Grammar for Teachers. (5 quarter hours)
(Will not satisfy literature or composition requirement.) Prerequisite: Two courses in freshman composition. A teaching-oriented course, using both traditional standard grammar and linguistics-based grammatical systems. Includes some work in elements of composition.

EH/AR 321 Set Design. (Lab Fee.) (5 quarter hours)
This course will cover the designing of a stage set from conception through mock-up, construction and implementation. Set(s) will be designed for actual use. Material covered will be pertinent to productions ranging from children's plays to community and college theater. Course usually runs concurrently with drama production.

***EH 325 Myth, Ritual and Culture.** (5 quarter hours)
A study of the basic beliefs of major cultures and their impact on the literature and thought. Special emphasis of the Greek/Roman, Egyptian, and Teutonic mythology and on eastern and western religions. Jungian interpretation emphasized.

***EH 400 Speech Communication.** (5 quarter hours)
(Will satisfy general speech requirement.) Includes practice in individual speaking, reading, and listening, in evaluating the performances of others, and in improving interpersonal communication.

EH 401 Speech: Conflict Management. (5 quarter hours)
(Will satisfy general speech requirement. Will not satisfy literature requirement.) A course in individual public speaking, interpersonal communication, and group dynamics. Emphasis on conflict reduction and problem solving.

EH 402 Oral Interpretation in Speech and Theatre. (5 quarter hours)
Study and practice designed to increase the ability to interpret literature dramatically and effectively to others. Includes practice in individual public speaking, interpersonal communication, and individual or small-group acting. (Will not satisfy literature requirement.)

EH 403 Journalism II. (5 quarter hours)
Prerequisite: Journalism I or permission of instructor. (Will not satisfy literature requirement). **(A lab will be included in this class.)** Designed to further the study and application of journalistic principles, processes, and practices of the news media. Basic writing principles will be expanded to help students with advanced writing assignments, editing, and interview assignments, as well as hands-on experience of designing, laying out and compiling a newspaper.

EH 413 Composition for Teachers. (5 quarter hours)
(Will not satisfy literature or composition requirement. For prospective teachers only). A study of essential features of composition writing and evaluation. Product-centered as well as process-centered techniques will be examined.

EH 414 History of the English Language. (5 quarter hours)
(Will not satisfy literature or composition requirement.) The development of American English from early and medieval British beginnings to the current linguistic standards and variations. Designed to increase ease of use, vocabulary, and appreciation of the English language. Analytical writing required.

***EH 425 Shakespeare: The Sonnets and the Plays.** (5 quarter hours)
Designed to provide familiarization with the range of Shakespeare's work as well as close critical appreciation of certain sonnets and plays.

EH 430 Literature: The Healing Art. (5 quarter hours)
A course in the use of literature as therapy and the function of literature in the process of self-discovery, self-analysis, and personal growth. Selected works of literature in poetry, drama, and fiction will be studied in the context of literature as therapy. Some attention will be given to poetry writing and journal writing as therapeutic tools. Especially recommended for behavioral science majors, educators, social workers, and others engaged in humanistic professions.

***EH 431 Poetry and Poetics.** (5 quarter hours)
A critical survey of the major poems in English and American literature with an emphasis on language, forms, themes, poetic theory, analysis, interpretation, and explication. Oral and written analysis.

EH 433 Fiction. (5 quarter hours)
(Will not satisfy literature requirement.) Study of a wide range of fiction, in the study of one novel and several selected short stories. Study is designed both to increase enjoyment of fiction and to develop analytical and evaluative reading skills, both oral and written response required.

***EH 440 African-American Studies.** (5 quarter hours)
A study of the major works of African-American writers from the 1700's to the present day. Includes the history of the African-American culture with an emphasis on the civil rights movement.

EH 441,442,443,444 Special Topics in English. (1-5 quarter hours)
(Honors independent study.) To be offered on occasion of student request with instructor's approval.

***EH 450 Renaissance Literature 1550-1680.** (5 quarter hours)
A critical study of the major works of the English renaissance from Spenser through Milton, exclusive of Shakespeare. Oral and written analysis.

***EH 451 Restoration and the Eighteenth Century.** (5 quarter hours)
A critical study of the major works of the late seventeenth and eighteenth century with an emphasis on Dryden, Pope, Swift, and Johnson. Oral and written analysis.

***EH 452 Chaucer and Medieval Literature.** (5 quarter hours)
A critical study of the major literary works of the middle ages with an emphasis on Chaucer and The Canterbury Tales. Oral and written analysis.

EH 460 Directed Study in English. (1-5 quarter hours)
(Prior approval required. Will not meet literature requirement.) A special research or creative writing course designed to meet specific needs and interest.

Finance (FIN) Courses

FIN 350 Managerial Finance. (Lab Fee.) (5 quarter hours)
Prerequisite: Principles of Accounting, Principles of Economics, and College Algebra. A study of the art of money capital management on the level of the firm in an enterprise economy. Topics covered include analysis of financial statements, investment decision making, calculation of the firm's cost of capital, and other related topics such as mergers and dividend policies.

FIN 355 General Insurance. (5 quarter hours)
A study of fundamental principles and uses of various types of insurance: life, fire, automobile, homeowners, and other casualty and business forms are examined.

FIN 356 Real Estate. (5 quarter hours)
(Approved by the Alabama Real Estate Commission as a pre-license course.) A course designed to give students a broad understanding of the principles of real estate. Instruction includes historical background, freehold estates, leasehold estates, deeds, transferring of interests, financing, appraising and the Alabama Real Estate License Law.

FIN 357 Investments. (5 quarter hours)
A study and review of consumer money management problems, choices, and decision-making. Topics such as investing in stocks, bonds, mutual funds, commodities and options will be covered.

General Business (GBA) Courses

GBA 259 Basic Technical Specialty (0-65 quarter hours). This course number designates credit awarded for the journeyman level training in a technical specialization area when validated by appropriate work experience.

GBA 301 Windows Applications for Business. (Lab Fee.) (5 quarter hours)
An examination of the many uses for windows applications in the modern business setting. Emphasis given to a "hands on approach" method of assessing the usage of personal computers for preparing spreadsheets, managing files, word processing, and graphics.

GBA 305 Statistical Methods of Business I. (Lab Fee.) (5 quarter hours)
Prerequisite: College algebra or equivalent. Introduction to descriptive and inductive methods to evaluate data. Coverage will include the calculation of central tendency, tests of hypothesis, probability theory, and sampling.

GBA 306 Statistical Methods of Business II. (Lab Fee.) (5 quarter hours)
Prerequisite: GBA 305. An advanced course covering topics such as analysis of variance, time series analysis, simple and multiple regression, and index numbers.

GBA 311 The Legal Environment of Business. (5 quarter hours) An analysis of the legal, social, and ethical environment of business.

GBA 312 Law for Accountants. (5 quarter hours)
Prerequisite: GBA 311 The Legal Environment of Business. A study of law subjects the accountant encounters including contracts, the UCC, business organizations, and accountants liability.

GBA 314 Business Ethics. (5 quarter hours)
Prerequisite: GBA 311 The Legal Environment of Business. An examination of moral philosophy and its relevance to business operation and managerial decision making. Ethical choices and their impact will be considered. Extensive use of the case study approach will be utilized. (Sometimes taught on a pass/fail basis.)

GBA 368 Industrial and Personnel Psychology. (Also listed as PS 368.) (5 quarter hours)
The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing and industrial counseling. (Sometimes taught on a pass/fail basis.)

GBA 459 Advanced Technical Specialty (0-20 quarter hours). This course number designates credit that may be awarded for advanced technical work experience. No credit will be granted for work experience which does not exceed in responsibility the original level of training. To qualify for this credit, a student must be a graduate of a technical school or college.

GBA 460 Directed Study/Research in Business. (1-5 quarter hours)
A course designed to allow students an opportunity to perform research or directed studies. This course is offered at the discretion of the professor with approval by the School Dean.

Geography (GO) Courses

GO 309 World Regional Geography. (5 quarter hours)
This course examines the physical, historical, cultural, economic, and political characteristics of the world's major regions. There is an emphasis on location, place, relationships within places, movement, and regions.

GO 311 Economic Geography. (Also listed as EC 311.) (5 quarter hours)
This course examines the origin, types, and distribution of economic activities around the world. Economic patterns as well as theories explaining the location of economic activities are also considered.

GO 320 The Geography of North America. (5 quarter hours)
This course emphasizes the geography of the United States, Canada, and Mexico. The relationship of the Caribbean region and Central America to North America is also considered. There is an emphasis on location, place, relationships within places, movement, and regions.

GO 341 Biogeography. (Also listed as BI 341). (5 quarter hours)
Prerequisite: General Ecology or permission of instructor. Presents the biological aspects of geography. Designed to instill a greater appreciation and awareness of man's physical environment and of the mechanisms which control the distribution of plants and animals on our planet.

General Science (GS) Courses

These courses do not meet requirements as science courses for the science major in the B.S. and B.S.Ed. degree programs though some may be specified in degree requirements.

GS 300 Astronomy. (No prior background in science is required.) (5 quarter hours)
Designed to help the student gain an understanding of how the astronomer studies his subject and to appreciate the grandeur of the universe. Emphasis on the methods of astronomy, the solar system, stars, and galaxies, and covering the topics of relativity and extraterrestrial life.

GS 301 Atmospheric Science. (5 quarter hours)
Provides the student with physical explanations of atmospheric, including meteorological phenomena.

GS 302 Earth Science. (5 quarter hours)
An introduction to the materials that make up the earth's crust and to the various processes responsible for wearing down and shaping the landscape, including an analysis of environmental issues which relate this science to human activities.

GS 320 Nutrition. (This course will not count as a physical science for B.S.Ed. majors.) (5 quarter hours)
You **are** what you eat or soon will be. This course considers contemporary nutrition from the viewpoint of practical application. To be discussed are vitamins, minerals, food choices, pre-prepared foods, food and health, labels and advertising and other practical topics.

GS 321 Environmental Studies. (5 quarter hours)
Emphasis on biological and physical aspects of environmental problems, integrating current legal, economic, social and technical developments.

GS 323 Human Sexuality. (Also listed as BI 323). (5 quarter hours)
A comprehensive and integrated approach to human sexuality emphasizing biological aspects.

GS 325 Survey of Physics. (5 quarter hours)
Prerequisite: High school algebra. A non-laboratory course presenting the basic concepts of physics, including mechanics, heat and temperature, electricity, magnetism, and optics. Applications of the basic principles are stressed. Some elementary problem solving is required.

GS 330 Chemistry Survey. (5 quarter hours)
A non-laboratory course presenting basic concepts of chemistry. This course does not serve as a prerequisite for any other course in the sciences nor does it meet requirements as a science course for the science major or minor in the B.S. and B.S.Ed. degree programs though it may be specified in degree requirements.

Humanities (HU) Courses

***HU 311 Beginning French Conversation I.** (5 quarter hours)
Designed for students with no previous expertise in French, this course is intended to enable the student to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for the conducting of business and for successful mobility in French-speaking countries.

***HU 312 Beginning French Conversation II.** (5 quarter hours)
Prerequisite: HU 311 or equivalent. A continuation of Beginning French Conversation I, this course is intended to enhance the student's ability to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for the conducting of business and for successful mobility in French-speaking countries.

***HU 313 Beginning Spanish Conversation and Culture I.** (5 quarter hours)
Designed for students with no previous expertise in Spanish, this course is intended to enable the student to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for the conducting of business and for successful mobility in Spanish-speaking countries.

***HU 314 Beginning Spanish Conversation and Culture II.** (5 quarter hours)
Prerequisite HU 313 or equivalent. A continuation of Beginning Spanish Conversation I, this course is intended to enhance the student's ability to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for the conducting of business and for successful mobility in Spanish-speaking countries.

***HU 315 Beginning Japanese Language and Culture I.** (5 quarter hours)
Designed for students with no previous familiarity with Japanese. This course is intended to enable the student to recognize and speak basic Japanese and to gain an appreciation of Japanese culture. Emphasis is on language skills necessary for the conducting of business.

***HU 316 Beginning Japanese Language and Culture II.** (5 quarter hours)
Prerequisite: HU 315 or equivalent. A continuation of Beginning Japanese Language and Culture I. This course is designed to enhance the student's ability to recognize and speak Japanese in a practical manner and to expand the student's knowledge and appreciation of Japanese culture. Emphasis is on the language skills necessary for the conducting of business.

***HU 321 Library Research Techniques**. (1 quarter hour)
This course familiarizes the students with the proper utilization of the basic reference books, abstracts and indexes, the card catalog, and audio-visual equipment. The course also enables the students to master research in their other college subjects.

***HU 330 Landmarks of Civilization. (Also listed as HY 330.)** (5 quarter hours)
(Occasional lab time is required.) Classical World to present. A review of selected examples of man's creative achievements in drama, literature, philosophy, art and music. This course is designed to demonstrate the integration of human knowledge. Stresses expository writing and critical thinking.

History (HY) Courses

HY 301 Social Science Research Methods. (Also listed as PO 301 and SS 301). (5 quarter hours)
(Required of History and Social Science majors.) Should be taken at the beginning of the junior year. A course designed to develop the techniques of social science research and to explore varying historical interpretations.

HY 302 Alabama History. (5 quarter hours)
The history of Alabama and its southern heritage from early times to the present. Study of present day problems and an examination of the space age as it has effected Alabama's development are included.

HY 303 The South in United States History. (5 quarter hours)
A study of the South as a region. A survey of its historical, economic, and social development, and of the role of the South in United States history.

HY 304 Colonial and Revolutionary America. (5 quarter hours)
A survey of Anglo-American colonial history, revolutionary developments, and the writing and ratification of the Constitution of the United States.

*Humanities Elective

HY 305 Nineteenth Century America (5 quarter hours)
This course covers the early years of the republic rise of sectionalism, crisis of 1860, Civil War reconstruction, industrialization, urbanization of America, the westward movement, quest for social justice and interdependence of the people of the United States.

HY 306 Twentieth Century America. (5 quarter hours)
An examination of the political, social, cultural and economic developments in twentieth-century America. Emphasis is placed on the Progressive Movement, role of the U.S. in world affairs, the Interwar period, and developments after World War II, particularly on the Vietnam Era and its aftermath.

HY 307 American Constitutional Law. (Also listed as PO 307.) (5 quarter hours)
An examination of the text of the nation's fundamental law, the Constitutional Convention of 1787, modes of constitutional interpretation, the organization and operation of the federal court system with special emphasis upon the U.S. Supreme Court, and the evolution of fundamental constitutional doctrines associated with separation of powers, federalism, taxation, contracts, due process and the takings clause. Students read and analyze excerpts of Supreme Court cases as the principal method for learning. This course is designed to provide a foundation in American constitutionalism for students who contemplate teaching social studies or attending law school.

HY 308 America and the World. (Also listed as PO 308). (5 quarter hours)
Examines America's foreign relations with the main geographical regions of the world, including issues that affect human survival, such as energy crisis, disarmament, foreign aid, and economic cooperation.

HY 309 American Civil War and Reconstruction. (5 quarter hours)
Causes, events and results of the Civil War. Also political, economic, and social aspects of reconstruction.

HY 312 Eighteenth Century Europe. (5 quarter hours)
Addresses the economic, social, political and diplomatic changes that took place in Europe under the Old Regime between 1715 to 1789. Emphasis is placed on events involving the major powers.

HY 313 Revolutionary Europe. (5 quarter hours)
A study of the background and the events of the French Revolution and the Napoleonic Period (1789-1815). Emphasizes the revolutionary wellsprings of the contemporary Western world.

HY 314 Nineteenth Century Europe. (5 quarter hours)
A study of the social, political, and industrial forces which shaped modern Europe between 1815 and 1914. Particular attention is given to the development of large state and business bureaucracies, the spread of industry and steam transportation, European imperialism, the rise of totalitarian ideologies, and the increase in popular participation in political and social events.

HY 315 Twentieth Century Europe. (5 quarter hours)
The major themes of the course are the rise and demise of totalitarian dictatorships, the continued spread of democracy, the appearance of the welfare state, and the general improvement of the European standard of living since 1918.

HY 322 England and Britain. (5 quarter hours)
A survey of English and British history from 1688 to the present. Encompasses political, constitutional, socio-economic, cultural, intellectual, and imperial movements.

HY 323 Modern German History. (5 quarter hours)
The course will cover the development of Germany from 1815 to the present. Major themes will be Germany's rapid industrialization and associated social problems, Nazism, militarism, the struggle for political unity, democratization and particularism.

HY 330 Landmarks of Western Civilization. (Also listed as HU 330.) (5 quarter hours)
(Occasional lab time is required.) Classical World to Renaissance. A review of selected examples of man's creative achievements in drama, literature, philosophy, art and music. This course is designed to demonstrate the integration of human knowledge. Stresses expository writing and critical thinking.

HY 332 History of American Business. (5 quarter hours)
This course familiarizes the student with the major developments in the history of American business since colonial times. Particular emphasis is given to the evolution of sophisticated management systems.

HY 333 World War II. (5 quarter hours)
The course will provide a strategic overview of the war and examine its causes, how new technologies, large government bureaucracies, and the emergence of new world powers effected its outcome.

HY 334 The Middle East. (Also listed as PO 334.) (5 quarter hours)
A survey of the historical and cultural characteristics of those countries from Mauritania and Morocco to Afghanistan. Emphasis is placed on the historical development and Arabization of the region, current socio-economic problems, the strategic significance of the area, and its relations to the rest of the world.

HY 335 History of Christianity. (Also listed as RE 335.) (5 quarter hours)
A survey of the background and origin of the Christian movement and its development to the present.

HY 336 A History of Criminal Justice. (Also listed as JS 336.) (5 quarter hours)
The subject of this course is the historical development of American criminal justice philosophy, institutions, and practices in the political, cultural, and social context of the Western world and the United States from ancient Hebraic Law to the present. Emphasis is on the contribution and effect of the Enlightenment, Puritanism, American Revolution and Constitution, and Frontier experience on the origins and evolution of the American administration of justice.

HY 342 Russia and Eastern Europe. 5 quarter hours)
Examines the history, geography, and current political systems in the Soviet Union and Eastern Europe.

HY 401 American History Seminar. (5 quarter hours)
The seminar will survey recent literature covering American history and allow the student to pursue a particular topic in depth.

HY 402 European History Seminar. (5 quarter hours)
The seminar will survey recent literature covering modern European economic and political history. Its emphasis will be on major research projects by the students.

HY 414 Modern Africa. (5 quarter hours)
An exploration of sub-Sahara Africa from the beginnings of European Colonization. Emphasis is focused on the effects of World War II on the region including the rise of black nationalism, the region's special mineral offerings and their influence on global developments, the Cold War and Independence movements particularly in Zimbaabwe, Zaire, and South Africa

HY 441,442,443,444 Special Topics in History. (1-5 quarter hours) To be offered in accordance with student demand or need.

Instrumentation (IT) Courses

IT 306 Interfacing Techniques. (Lab Fee.) (5 quarter hours)
Prerequisite: Microprocessor Fundamentals. Provides necessary background to interface real world physical measurables to digital systems, including computers.

IT 307 Interfacing Projects. (Lab Fee.) (5 quarter hours)
Prerequisite: IT 306. A continuation of IT 306 involving the student in the design, construction, and implementation of microprocessor or microcomputer interfacing systems.

IT 312 Math Methods for Instrumentation. (5 quarter hours)
Prerequisite: MA 304. A course designed to introduce the student to the advanced mathematical methods necessary for understanding complex instrumentation systems. Included are introductions to complex numbers, Laplace transforms, Fourier analysis, and elementary statistical analysis.

IT 316 Applied Digital Design. (Lab Fee.) (5 quarter hours)
Prerequisite: Introductory Digital Electronics. A course to acquaint the student with good design fundamentals including the use of mixed logic and algorithmic state machine formalisms. Covers the use of recent devices (PAL's, PLD's), microprocessors, and computers in digital design.

IT 317 Digital Design Projects. (Lab Fee.) (5 quarter hours)
Prerequisite: IT 316. A continuation of IT 316, which allows the student to investigate his or her own creativeness in digital design and application.

IT 400 Advanced Analog Instrumentation. (Lab Fee.) (5 quarter hours)
Prerequisite: IT 312, PY 305. Theoretical analysis of modern networks using operational amplifiers, analog filters, and practical circuits for communications and data acquisition systems.

IT 401 Applied Data Communications. (Also listed as CS 401.) (5 quarter hours)
(CS students should be cautioned that this is a technical course.) A technical course designed to acquaint the student with the latest data communication terminology, theory, technology, standards, and equipment.

IT 420 Electro-Optics. (Lab Fee.) (5 quarter hours)
Prerequisite: IT 312 and PY 305. (Optics helpful, but not required.) Emphasizes the latest technology in laser systems, light detection and displays, and applications.

IT 425 Introduction to Robotics. (Lab Fee.) (5 quarter hours)
Prerequisite: introductory electronics classes. Fundamentals of Robotics including a study of robotic motion, computer interfaces, robotic vision, and capabilities.

IT 435 Instrumentation Survey. (5 quarter hours)
Prerequisite: PY 312. Principles of instrumentation systems. The detection, measurement and logical use of physical quantities with an emphasis on the physical process, transducers and signal processing.

IT 440 Process Control Instrumentation. (Lab Fee.) (5 quarter hours)
Prerequisite: All IT courses required in IT/PY or IT major. Provides a review of all measurement, signal conditioning, analog, and digital electronics, as well as an in-depth analysis of process control fundamentals, transducers, and instrumentation. Serves as final assessment of overall instrumentation knowledge.

IT 441,442,443,444 Special Topics in Instrumentation. (1-5 quarter hours)
To be offered on occasion of student demand or need.

IT 460 Directed Study/Special Instrumentation Projects. (1-5 quarter hours) By permission of instructor.

Justice Studies (JS) Courses

JS 300 Criminal Justice System (Also listed as PO 300). (5 quarter hours)
A survey of the criminal justice system in the United States, including law enforcement, judicial and correctional agencies and activities.

JS 301 Criminal Justice Process. (5 quarter hours)
An overview of the major steps in the processing of a criminal case in the United States, including pre-trial, trial and post-conviction phases.

JS 302 Criminal Law. (Also listed as PO 302) (5 quarter hours)
Definitions of crimes to include the specific elements of various criminal offenses. Defenses to criminal conduct are also discussed.

JS 314 Legal Issues in Public Safety Administration. (Also listed as PSA 314) (5 quarter hours)
An examination of the laws, rules, and regulations that have general applicability to public safety agencies. Topics covered include codes and ordinances, legal responsibilities of public safety agencies, and enforcement procedures and administrative powers.

JS 336 A History of Criminal Justice. (Also listed as HY 336). (5 quarter hours)
The subject of this course is the historical development of American criminal justice philosophy, institutions, and practices in the political, cultural, and social context of the Western world and the United States from ancient Hebraic Law to the present. Emphasis is on the contribution and effect of the Enlightenment, Puritanism, American Revolution and Constitution, and Frontier experience on the origins and evolution of the American administration of justice.

JS 350 Introduction to the American Legal System. (Also listed as SO 350 & PO 350.) (5 quarter hours)
This course is a review of basic legal doctrines and processes in the U.S. system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide pre-law majors with limited

exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

JS 364 Civil Liberties. (Also listed as PO 364.) (5 quarter hours)
Analysis of leading cases and doctrines which balance governmental/societal interests with individual rights across a broad spectrum of social relationships. Explores the constitutional foundations for freedom of expression, due process, and equal protection under the law.

JS 400 Law Enforcement in America. (5 quarter hours)
An in-depth examination of American policing. Includes history, structure, functions, processes and administrative issues of contemporary law enforcement agencies/systems.

JS 401 Adult Corrections. (Also listed as SO 401.) (5 quarter hours)
Socioeconomic facets of crime and principles and practices of delinquency, probation and parole, interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed.

JS 440 Contemporary Issues in Criminal Justice. (5 quarter hours)
An analysis of issues and problems of criminal justice administration to include readings in policy formulation and implementation of police, courts and correctional agencies.

JS 450 Advanced Criminal Justice Process. (Also listed as PO 450.) (5 quarter hours)
An in-depth examination of decisions by the U.S. Supreme Court which outline the basic procedural rights of criminal defendants. Included are constitutional rights related to arrest, search and seizure, self-incrimination, fair trial, and legal counsel.

JS 452 Advanced Criminology. (Also listed as SO 452.) (5 quarter hours)
Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation.

JS 453 Juvenile Delinquency. (Also listed as SO 453.) (5 quarter hours)
An in-depth examination of juvenile delinquency within a sociological framework. Includes both a theoretical and practical emphasis.

JS 455 Ethics for Public Administrators (Also listed as PO 455 and PSA 455.) (5 quarter hours)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

JS 460 Directed Study in Justice Studies. (1-5 quarter hours) Consent of instructor required.

JS 465 Public Safety Administration Internship. (Also listed as PSA 465.) (5 quarter hours)
Provides supervised experiences in appropriate criminal justice agencies. This course includes intensive routine seminars with discussion and evaluation of experiences in the field.

Mathematics (MA) Courses

+Suggested courses to complete if you are planning to attend graduate school in mathematics.

MA 301 Pre-Calculus. (Lab Fee.) (5 quarter hours)
Prerequisite: Two years of high school algebra. Geometry recommended. A course for students who are preparing to take the Calculus sequence. Some topics covered include the real number system, simplification of algebraic expressions, functions and graphs, rational and polynomial functions, exponential and logarithmic functions, conic sections, the binomial theorem, finite induction, arithmetic and geometric progressions, business and behavioral science applied word problems.

MA 302 Pre-Calculus. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 301 or equivalent. A course for students who are preparing to take the Calculus sequence. This course includes set notation, concept of functions, extended study of the geometric and trigonometric functions, analytic trigonometric functions, inverse functions, radian measure, computation and numerical application.

MA 303 Calculus I. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 301 and MA 302 or their equivalents. Introduction to limits plus techniques and applications of differential and integral calculus.

MA 303L Calculus I Lab. ***Co-requisite: MA303.*** (1 quarter hour)
If MA 303L is taken independent of MA 303, a laboratory fee is required.

MA 304 Calculus II. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 303. Continuation of MA 303.

MA 304L Calculus II Lab. (1 quarter hour)
Co-requisite: MA 304. If MA 304L is taken independent of MA 304, a laboratory fee is required.

MA 305 Calculus III. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 304. A continuation of MA 303/304 covering infinite series, conics, vectors, functions of several variables and multiple integration.

MA 305L Calculus III Lab. (1 quarter hour)
Co-requisite: MA 305. If MA 305L is taken independent of MA 305, a laboratory fee is required.

MA 306 Calculus IV. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 305. Continuation of MA 305.

MA 306L Calculus IV Lab. (1 quarter hour)
Co-requisite: MA 306. If MA 306L is taken independent of MA 306, a laboratory fee is required.

MA 308 Discrete Mathematics. (5 quarter hours)
Prerequisite: MA 301. Introduces the student to topics in mathematical models, mathematical reasoning, sets, relations and functions, Boolean algebra, special data structures and special algebras. An application of these topics will teach the nature and purpose of mathematical models, the algebra of logic, sets and groups, and relationships between mathematics and Computer Science.

MA 309 Business Calculus. (Lab Fee.) (5 quarter hours)
Prerequisite: College Algebra, Business Statistics, Discrete Mathematics, at least a basic programming or computer applications course. Covers functions, graphs and limits as encountered in the professional business environments. Basic business applications using calculus are covered. Some solutions require use of computers. **(This course cannot be counted as an upper level mathematics course).**

+MA 310 Matrices and Linear Algebra. (5 quarter hours)
Prerequisite: MA 306. Matrices, systems of equations, determinants, vector spaces, and applications.

MA 311 Advanced Mathematics for Teachers. (5 quarter hours)
Prerequisite: At least one college level mathematics course. The purpose of this course is to develop greater mathematical skills and insight. Introduces the student to topics in numeration systems, elementary number theory, problem solving, introduction to probability theory, statistics, and geometry.

MA 314 College Geometry. (5 quarter hours)
Prerequisite: MA 304. Foundations of Euclidian geometry to include geometric construction and properties of regular polygons and circles. Based on logical statements and formal proofs.

MA 316 Vector Analysis. (5 quarter hours)
Prerequisite: MA 306. Vector algebra, vector operators, vector functions, scalar and vector fields, divergence, curl, Laplacian, line and surface integrals, orthogonal curvilinear coordinates, divergence theorem, Stoke's and Green's theorems.

+MA 320 Modern Algebra. (5 quarter hours)
Prerequisite: MA 310. Axiomatic approach, fundamental properties of groups/subgroups, introduction to rings and fields. Emphasis on proofs.

+MA 401 Complex Analysis. (5 quarter hours)
Prerequisite: MA 306. Covers complex numbers, analytic functions and integrals, conformal mapping, sequences and series, and integration by the method of residues.

+MA 421 Differential Equations. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 306 or equivalent. Theory and techniques of solution for ordinary differential equations with applied examples from different scientific disciplines. Introduction to Laplace Transforms.

MA 423 Numerical Analysis. (Lab Fee.) (5 quarter hours)
Prerequisite: MA 306 and MA 310. **(Computer programming required.)** Introduction to numerical methods for interpolation, evaluating roots of polynomials, systems of equations, integration, differentiation, differential equations, and approximation and error analyses.

MA 428 Partial Differential Equations. (5 quarter hours)
Prerequisite: MA 421. Fourier series, classical PDE's (heat, wave and Laplace's equations), and numerical method.

+MA 430 Theory of Statistics and Probability I. (5 quarter hours)
Prerequisite: MA 306. Basic probability theory: counting techniques, random variables, probability density function (continuous/discrete), distributions (uniform, normal, binomial, hypergeometric), expected value and variance.

MA 431 Theory of Statistics and Probability II. (5 quarter hours)
Prerequisite: MA 430. A continuation of MA 430. Covers linear regression, correlation, analysis of variance, and other advanced statistical concepts.

MA 441 Special Topics in Mathematics. (5 quarter hours)
Prerequisite: MA 304. Considers topics in abstract algebra. Theory of equations and various mathematical applications.

MA 445 Mathematical Modeling and Simulation. (5 quarter hours)
Prerequisite: MA 306, MA 310 and MA 421 or equivalent. The course covers techniques in vector rotation of three-space coordinates, Perron's eigenvalue theorem, data fitting by the normalization processes for multi-variable function approximation, Bezier representation of polynomials for "real-time", computer graphic applications and other topics.

+MA 450 Advanced Calculus I. (5 quarter hours)
Prerequisite: MA 306, MA 310. Vector operations and spaces, linear transformations, functions of several variables, limits, continuity, total differential, Jacobian, general chain rule, implicit functions, higher order derivatives, change of variables in integrals.

+MA 451 Advanced Calculus II. (5 quarter hours)
Prerequisite: MA 450. A continuation of MA 450 with various applications of multivariant calculus.

+MA 452 Real Analysis. (5 quarter hours)
Prerequisites: MA 310, MA 421. Covers logic, foundation for the differential and integral calculus of a function of one variable.

MA 460 Directed Study/Research in Mathematics. (1-5 quarter hours) To be offered on occasion of student demand or need.

MA 470 Senior Mathematics Seminar. (5 quarter hours)
Prerequisite: MA320, MA 421. A thorough review of mathematical ideas in the calculus, linear algebra, differential equations, and abstract algebra, along with other selected topics.

Management (MG) Courses

MG 302 Management Information Systems. (Lab Fee.) (5 quarter hours)
Prerequisite: GBA 301 or Windows Applications course. An examination of the role of information systems in organizations and how they relate to the objectives and structure of an organization. Emphasis is given to providing a broad overview of the information systems management function.

MG 320 Managerial Communication. (Lab Fee). (5 quarter hours)
Instruction in the communication skills of listening, speaking, reading, and writing as they relate to the management function. Course requirements include the completion of a formal written research paper.

MG 346 Principles of Management. (5 quarter hours)
An introductory course that explores both the underlying theory and the practical application of management practices and organizational development. In addition to the basic management functions, the course deals with ethical questions, inter-

national competition, and other issues stemming from management's relationship with its increasingly complex legal, social and competitive environment.

MG 349 Human Resources Management. (Lab Fee). (5 quarter hours)
Prerequisite: MG 346 Principles of Management. A study of the technical functions of HRM. Emphasis is on their application to programs that foster employee commitment to objectives in a competitive, global economy.

MG 351 Labor-Management Relations. (5 quarter hours)
Prerequisite: MG 349 Human Resource Management. An examination of managerial issues affecting development of industrial and labor relations policy. Topics examined include impact of public policy, negotiation, and administration of collective bargaining agreements, The NLRB, and arbitration cases.

MG 352 Culture/TQM in the Global Market. (Lab Fee.) (5 quarter hours)
Prerequisite: MG 346 Principles of Management. Examines the impact of cultures on the concept of Total Quality Management (TQM) in the global market.

MG 353 Project Management. (Lab Fee.) (5 quarter hours)
Prerequisite: MG 346 Principles of Management. Examines the use of critical path method (CPM) and Program Evaluation Review Technique (PERT) on project planning and control.

MG 375 Organizational Behavior. (Also listed as PS 375.) (Lab Fee.) (5 quarter hours)
Prerequisite: MG 346 Principles of Management. A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. (Sometimes taught on a pass/fail basis.)

MG 377 Public Administration. (Also listed as PO 377.) (5 quarter hours)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

MG 405 Production and Operations Management. (Lab Fee.) (5 quarter hours)
Prerequisite: MG 346 Principles of Management, GBA 305 Statistical Methods of Business I. Production and Operations Management examines manufacturing and services industries and the multitude of activities needed to produce or process goods and services in the private and public sectors. Examines the problems of facilities layout, plant location, statistical quality control, process control, and various models utilized in these areas.

MG 410 Employment Law for Business. (5 quarter hours)
Prerequisite: GBA 311 Legal Environment of Business, GBA368 Industrial & Personnel Psychology. An applied study of significant legal issues in labor and employment law, including labor-management relations, wage and hour laws, safety and health laws, retirement, welfare and privacy laws that prepares future managers, supervisors and business owners for responsibilities in management-employee relations.

MG 416 Entrepreneurship and Small Business Management. (Lab Fee.) (5 quarter hours)
Prerequisite: MG 346 Principles of Management, MK 331 Principles of Marketing, GBA 301 Windows Applications for Business, and Accounting I. In this course, students bring their knowledge of management, marketing, accounting and microcomputer applications to bear on the problems of planning and operating a small business. Student teams research, prepare and present complete business plans—including pro-forma financial statements for startup ventures. Market research, site selection, pricing, promotion and financial analysis for the small firm are among the topics stressed.

MG 418 Management of Technology. (Lab Fee.) (5 quarter hours)
Prerequisite: GBA 305 Statistical Methods of Business I, MG 302 Management Information Systems, MG 320 Managerial Communications, and MG 346 Principles of Management. A case study approach to the integration of technical knowledge with management science.

MG 419 Technology Transfer and Commercialization. (5 quarter hours)
Prerequisite: GBA305 Statistical Methods of Business I, MG302 Management Information Systems, MG320 Managerial Communications, MG346 Principles of Management. Technology Transfer and commercialization offers an overview of how government-sponsored technology and expertise can be transferred into commercial and private sectors to maintain business competitiveness. Specific case studies are employed to illustrate the effectiveness and importance of technology transfer to global commerce.

MG 420 Business Policy. (Lab Fee.) (5 quarter hours)
Prerequisite: Senior standing and the completion of FIN 350 Managerial Finance, MG 346 Principles of Management, and MK 331 Marketing Principles. (Students should schedule this course during one of the last two quarters of their degree program.) A Capstone Course which examines the interrelations of the various business functions from the viewpoint of middle management's decision process. Heavy emphasis on both oral and written case study analysis. **Note: A student must earn a minimum grade of "C" in this course in order to graduate with a major in accounting, management, human resources management, or the management of technology.**

MG 441,442,443,444 Special Topics in Management. (1-5 quarter hours) To be offered on occasion of student demand or need.

MG 460 Directed Study/Research in Management. (1-5 quarter hours) To be offered on occasion of student demand or need.

Marketing (MK) Courses

MK 331 Marketing Principles. (5 quarter hours)
Prerequisite: Principles of Economics. A study of the forces operating, institutions employed and methods followed in the flow of goods and services from production to consumption.

MK 433 Marketing Strategies and Policies. (Lab Fee.) (5 quarter hours)
Prerequisite: Marketing Principles. A senior level course which examines the various policies and problems that require decision making by marketing managers in areas of product, distribution, promotion, and price.

Music (MU) Courses

MU 300/301/302 Music Theory. (3 quarter hours each)
This course or the equivalent is required of all music minors. Permission of the professor required. Co-requisite: MU 304/305/306. A course presenting the fundamentals of music theory including scales, modes, intervals, key signatures, triads in four-part writing, sight-singing, ear-training, and keyboard harmony.

MU 304/305/306 Aural Musicianship. (1 quarter hour each)
Co-requisite: MU 300/301/302. Required of all music minors who study theory unless exempted by a proficiency test. Instruction in rhythmic, intervallic, melodic and harmonic dictation; sight-singing.

***MU 310 Music Appreciation.** (5 quarter hours)
No technical background is necessary. A survey of music designed to prepare the student for more intelligent listening to and appreciation of serious music.

***MU 321/322 Music Literature.** (5 quarter hours)
A study of the development of the significant musical styles with special attention to the individual contributions of major composers.

MU 325 Conducting. (3 quarter hours)
A study designed to develop skills in conducting and score reading. Includes both baton and choral rehearsal techniques.

MU 329/330 Class Piano. (3 quarter hours each)
Consists of class instruction in basic techniques of playing the piano. No previous technical experience required.

MU 339/340 Class Voice. (2 quarter hours each)
Consists of class instruction in the basic concepts in singing. Includes the study of proper tone production, breath control, and diction.

MU 341 College Singers. (1 quarter hour)
(At least two rehearsals weekly are required.) A performing vocal ensemble open to all students. Provides for the study and performance of a variety of choral literature.

MU 343 Choral Union. (1 quarter hour) A smaller ensemble of mixed voices selected by audition. Open to all students.

MU 345 Selected Chorus. (1 quarter hour)
Offers an opportunity to study and perform choral literature for either women's or men's voices respectively. Open to all students

MU 346 Instrumental Ensemble (Band). (1 quarter hour)
The study and performance of selected literature for the smaller instrumental ensemble. Includes both jazz and pop music. Open to all students.

MU 410 Choral Techniques. (5 quarter hours)
A study in the refinement of choral techniques including blends, balance, choral tone, rehearsal techniques, and procedures. Includes a survey of choral literature and helps in organizing and developing choral groups.

MU 441,442,443,444 Special Topics in Music. (1-5 quarter hours) To be offered on occasion of student demand or need..

MU 451 Music for Teachers N-6. (5 quarter hours)
A study to assist the classroom teacher in meeting the needs of pre-school and elementary students in music. A study of group activities and materials through which children can experience music.

MU 460 Music Drama Production. (1-5 quarter hours) Special study in the preparation and presentation of musical productions.

Physical Education (PE) Courses

Activity Courses

PE 312/313 Varsity Athletics (*by permission only.*) (1 quarter hour)

PE 412-413 Senior Varsity Athletics (*by permission only.*) (1 quarter hour)

Other P.E. Courses

PE 301 Theory of Coaching and Officiating. (5 quarter hours)
(Recommended for Physical Education majors only.) A course designed to familiarize students with officiating techniques, coaching principles, basic coaching philosophies, and effective methodology, motor skills, and strategic and theoretical elements leading to the development of championship teams.

PE 320 Analysis of Team Sports. (5 quarter hours)
(Recommended for Physical Education majors only.) A course dealing with analysis of the movement involved in the performance of various specified team sports. Practical experience in conditioning drills used to improve performance, officiating techniques, and strategies of the games are included.

PE 321 Analysis of Gymnastics/Track/Field. (5 quarter hours)
(Recommended for Physical Education majors only.) *A* course dealing with the analysis of movement involved in the performance of gymnastics and track/field. Practical experience in conditioning, drills used to improve performance, and strategies used in competition are included.

PE 322 Analysis of Individual Sports. (5 quarter hours)
(Recommended for Physical Education majors only.) A course dealing with the analysis of movement involved in the performance of badminton, golf, and tennis skills. Practical experiences in conditioning, skill improvement, and strategies used in playing each sport are included.

PE 323 Analysis of Rhythms and Aquatics. (5 quarter hours)
(Recommended for Physical Education majors only.) A course dealing with the analysis of movement involved in the performance of rhythms and aquatics activities. Practical experiences in conditioning, skill improvement, and movement analysis are included.

PE 325 Kinesiology. ***Prerequisite: Anatomy and Physiology.*** (5 quarter hours)
(Recommended for Physical Education Majors only, or approval of instructor.) Anatomical, mechanical, and functional aspects of human movement are studied with emphasis on analysis of joint actions, mechanical principles, and laws of motion as they apply to efficient movement.

PE 326 History and Principles of Physical Education. (5 quarter hours)
Recommended for Physical Education majors only.) A course designed to provide the professional student an overview of the body of knowledge encompassing the discipline of physical education. Historical, psychological, biological, and sociological foundations of human movement are studied.

PE 327 Physiology of Exercise. (5 quarter hours)
Prerequisite: Anatomy and Physiology. (Recommended for Physical Education majors only, or approval of instructor.) A course designed to provide the student an opportunity to develop a better understanding of the effects of exercise on body systems, factors affecting performance, and the role of physical education in health-related fitness.

PE 333 Care and Prevention of Athletic Injuries. (Lab Fee). (5 quarter hours)
(Recommended for Physical Education majors only, or approval of instructor.) A course designed to familiarize students with the most prevalent athletic injuries, their anatomical explanation and physiological complications, and treatment of such injuries.

PE 350 Adaptive Physical Education and Sports. (5 quarter hours)
(Recommended for Physical Education majors only, or approval of instructor.) A course designed to provide students with the information necessary to understand, evaluate, and develop programs of physical activities to meet the special needs, interests, and abilities of exceptional children and youth.(Class will interact with exceptional students at field sites.)

PE 352 First Aid and CPR Instructor's Course. (5 quarter hours)
A course designed to teach the basic principles of first aid and cardiac pulmonary resuscitation. The course also provides training in the procedures of administering first aid and CPR. American Red Cross Certification is awarded for the successful completion of this course.

PE 354 Contemporary Health and Physical Education Activities. (3 quarter hours)
A course dealing with personal/community health and physical education designed to assist students in developing a broad understanding of their obligation to themselves and society in matters of health, physical education, physical fitness and physical activities. Appropriate physical education activities will be included.

PE 355 Health-Related Fitness and Nutrition. (5 quarter hours)
(Recommended for Physical Education majors only, or approval of instructor.) A course dealing with the development of cardiovascular endurance, muscle strength, flexibility, nutrition and appropriate body composition as these elements contribute to health-related fitness. The course also provides the student with the opportunity to participate in an exercise program which emphasizes cardiovascular endurance, muscular strength and flexibility

PE 400 Organization and Administration of Physical Education. (5 quarter hours)
(Recommended for Physical Education majors only.) A course designed to provide the professional student theoretical and practical information about specific aspects of the process of organizing and administering physical education and athletic programs.

PE 401 Measurement and Evaluation of Physical Education. (5 quarter hours)
Prerequisite: Three of the following analysis courses, PE 320, 323, 322, 323. Requires Admission to the Teacher Education Program. Included in this course is the study of theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of test results utilizing fundamentally sound statistical procedures.

PE 430 Materials and Methods of Teaching P.E. in the Elementary School. (Lab Fee.) (5 quarter hours)
Prerequisite: For P.E. majors only: three of the following analysis courses, PE 320, 321, 322, 323 and admission to the Teacher Education Program. A course designed to study source materials, planning and organizing instruction, selection of suitable activities, and preparation of teaching units for physical education in the elementary school. (Includes field experience.)

PE 431 Motor Development and Physical Activity. (5 quarter hours)
Prerequisite: Child Psychology or equivalent. (Recommended for Physical Education and Early Childhood Majors.) The influence of various tissues (i.e. muscle, bone, adipose), and coordinated neural function are central concerns of this course. Physical activities intended to enhance the physical and motoric growth and development of young children are examined. The relationship of physical and motor growth and development to all other aspects of human development are studied.

PE 440 Materials and Methods of Teaching Physical Education in High School. (Lab Fee.) (5 quarter hours)
Prerequisite: Three of the following analysis courses, PE 320, 321, 322, 323. Requires Admission to the Teacher Education Program. Emphasis is placed on approved teaching techniques, theories of learning, characteristics of high school students, planning for instruction, instructional management and selection of learning activities. Lesson planning and unit construction are an important part of this course. **(Requires field experience.)**

PE 460 Directed Study/Research in Physical Education. (1-5 quarter hours) To be offered on occasion of student need. .

PE 480 Internship in Physical Education. (15 quarter hours) To be offered as an internship.

Philosophy (PH) Courses

***PH 300 Moral Values in Today's Society. (Also listed as SO 300.)** (5 quarter hours)
A sociological approach to the study of morality combined with a philosophical examination of what moral value is and how moral values may be realized in today's society. Emphasis will be given to specific current moral issues.

***PH 301 Introduction to Philosophy.** (5 quarter hours)
An examination and evaluation of various answers to basic problems of philosophy.

***PH 312 Logic.** (5 quarter hours)
A course intended to help the student develop skill in detecting, identifying, and analyzing fallacious reasoning and implication in the mass media, literature, advertising, theater, philosophy, and religion.

***PH 321 History of Philosophy I.** (5 quarter hours)
A critical survey of the thought of major western philosophers from Thales to Descartes.

***PH 322 History of Philosophy II.** (5 quarter hours)
A critical survey of the thought of western philosophers from Descartes to the present time.

***PH 325 Philosophy of Religion. (Also listed as RE 325.)** (5 quarter hours)
A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality, and the belief in life after death. Special attention is given to the impact of science upon religion.

PH 441,442,443,444 Special Topics in Philosophy. (1-5 quarter hours) To be offered on occasion of student demand or need.

PH 460 Directed Study/Research in Philosophy. (1-5 quarter hours)
The student studies in an area of his or her particular interest approved by the instructor. Open only to superior students who have had at least fifteen hours of philosophy in the classroom. May be repeated for up to ten additional hours of credit.

Political Science (PO) Courses

PO 300 Criminal Justice System. (Also listed as JS 300.). (5 quarter hours)
A survey of the criminal justice system of the United States, including law enforcement, judicial and correctional agencies and activities.

PO 301 Social Science Research Methods. (Also listed as SS 301/HY 301.) (5 quarter hours)
A course designed to develop the techniques of social science research and to explore varying historical interpretations. Also aims at preparation of teaching materials.

PO 302 Criminal Law. (Also listed as JS 302.) (5 quarter hours)
Definitions of crimes to include the specific elements of various criminal offenses. Defenses to criminal conduct are also discussed.

PO 303 Comparative State and Urban Government. (5 quarter hours)
A comparative examination of the operation, issues, and theories of state and urban government throughout the United States.

PO 304 Problems of American Government. (5 quarter hours)
A study of the structure and institutional problems of American government.

PO 305 Alabama Government. (5 quarter hours)
An examination of the structure and operation of state and local governments and the political process in Alabama.

PO 306 Elections and Public Opinions. (5 quarter hours)
This course examines the role and effects of elections and public opinions on American political institutions.

PO 307 American Constitutional Law. (Also listed as HY 307.) (5 quarter hours)
An examination of the text of the nation's fundamental law, the Constitutional Convention of 1787, modes of constitutional interpretation, the organization and operation of the federal court system with special emphasis upon the U.S. Supreme Court, and the evolution of fundamental constitutional doctrines associated with separation of powers, federalism, taxation, contracts, due process and the takings clause. Students read and analyze excerpts of Supreme Court cases as the principal method for learning. This course is designed to provide a foundation in American constitutionalism for students who contemplate teaching social studies or attending law school.

PO 308 America and the World. (Also listed as HY 308.) (5 quarter hours)
Examines America's foreign relations with the main geographical regions of the world, American policy toward disarmament, foreign aid, economic cooperation, and other contemporary issues are also discussed.

PO 320 Introduction to International Commerce. (Also listed as EC 320.) (5 quarter hours)
Examines the international economic system and the challenges faced by multi-national corporations in the conduct of international business. Special attention is given to the mechanics of importing and exporting, international finance, and private international law.

PO 334 The Middle East. (Also listed as HY 334.). (5 quarter hours)
A survey of the historical and cultural characteristics of those countries from Mauritania and Morocco to Afghanistan. Emphasis is placed on the historical development and Arabization of the region, current socio-economic problems, the strategic significance of the area, and its relations to the rest of the world.

PO 340 Methods of Behavioral Research. (Also lised as PS 340 and SO 340.) (5 quarter hours)
Prerequisite: Permission of instructor and college algebra or equivalent. Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed and interpreted.

PO 341 Statistics in Behavioral Science. (Also listed as PS 341and SO 341.) (5 quarter hours)
Prerequisite: Permission of instructor and college algebra or equivalent. Planning and conduct of behavioral science research with an emphasis on elementary statistical analysis of behavioral science data.

PO 350 Introduction to American Legal System. (Also listed as JS 350 and SO 350.) (5 quarter hours)
This course is a review of basic legal doctrines and processes in the U.S. system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide pre-law majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

PO 351 Political Sociology. (Also listed as SO 351.) (5 quarter hours)
Explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and those arising from minority group relations.

PO 364 Civil Liberties. (Also listed as JS 364.) (5 quarter hours)
Analysis of leading cases and doctrines which balance governmental/societal interests with individual rights across a broad spectrum of social relationships. Explores the constitutional foundations for freedoms of expression, due process rights, and equal protection under law.

PO 377 Public Administration. (Also listed as PSA 377.) (5 quarter hours)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

PO 450 Criminal Justice Courts. (Also listed as JS 450.) (5 quarter hours)
An in-depth examination of decisions by the U.S. Supreme Court which outline the basic procedural rights of criminal defendants. Included are constitutional rights related to arrest, search and seizure of evidence, self-incrimination, fair trial, and legal counsel.

PO 452 Comparative Political Systems. (5 quarter hours)
Examines the theory of comparative government as well as government and politics in Western Europe, Asia, Africa, and Latin America.

PO 453 International Politics. (5 quarter hours.)
A survey of the basic characteristics and theories of the international system. Special emphasis is placed on regional and international organization, international law, international economics, and international cooperation.

PO 455 Ethics for Public Administrators. (Also listed as JS 455 and PSA 455.) (5 quarter hours)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

PO 460 Directed Study/Research in Political Science. (1-5 quarter hours) Designed to meet the specific needs of students.

PO 465 Senior Research Project. (5 quarter hours)
In this capstone course, the student will work closely with the professor in designing and completing a major research project in an area of political science that is relevant to his or her career objectives.

Procurement (PR) Courses

PR 394 Introduction to Procurement. (5 quarter hours)
An introduction to that aspect of management science concerned with procurement.

PR 395 Price and Cost Analysis. (5 quarter hours)
Prerequisite: PR 394. An examination of the role of the government contracting officer in the acquisition process. Emphasis is given to considering pricing practices and theories and to assessing the government's procedures and methods of evaluating pricing and costing activity.

PR 396 Advanced Procurement Concepts and Introduction to Government Contract Law. (5 quarter hours)
Prerequisite: PR 394 and PR 395. Detailed examination of the FAR to include recent interpretations of government contract law.

PR 397 Contract Negotiation. (5 quarter hours)
Prerequisite: PR 394, PR 395, and PR 396. An examination of the concepts and techniques of negotiation. Topics covered include strategies and tactics of contract negotiation, preparation for sound negotiation, organization and operation of a procurement team, the relative positions of strength required for successful negotiation, and limitations as imposed by law. In addition to class lectures, the students will participate in mock negotiations using case studies.

PR 398 Contract Administration. (5 quarter hours)
Prerequisite: PR 394, 395, 396, and 397. An examination of the management of government contracts in the post-award phase. The content provides insight into the variety of administrative matters that arise during the life of a contract. Emphasis is given to a consideration of the rights and responsibilities of the government and contractor.

Psychology (PS) Courses

NOTE: General Psychology is prerequisite to all psychology courses listed below.

PS 320 Cognitive Psychology. (5 quarter hours) A survey and analysis of the major topics in cognitive psychology to include memory, thinking, attention, problem solving, information processing, and artificial intelligence.

PS 321 Sensation and Perception. (5 quarter hours)
A review of the basic processes of sensation and perception with emphasis on physiological, ecological, and psychological features including the relationship of perceptual, cognitive, and behavioral processes.

PS 330 Educational Psychology. (5 quarter hours)
Application of psychological concepts and principles to classroom teaching and learning especially in the areas of motivation, individual differences, adjustment, and teacher-student interaction.

PS 331 Social Psychology. (5 quarter hours)
The relationship of the individual to social systems with special reference to the socialization process, group dynamics, social conflict, and person perception. The course includes a brief introduction to methods of research.

PS 332 Child Psychology. (5 quarter hours) A study of the physical, mental, social and emotional development of the child.

PS 334 Adolescent Psychology. (5 quarter hours)
Biological, psychological and sociological perspectives with consideration of major theoretical approaches to adolescent development, development of cognitive processes, social attachment, sexual differences, emotional development, values and moral attitudes.

PS 335 Adult Psychology. (5 quarter hours)
Examines the scope of adult psychology to include physical and intellectual development, personality and social development, the family and vocational development during young adulthood, the middle years and retirement.

PS 336 Psychology of Learning. (5 quarter hours)
A survey of the theories and concepts related to learning. The course will cover historical background, respondent conditioning, operant conditioning, imitation and cognitive models.

PS 340 Methods of Behavioral Science Research. (5 quarter hours)
Prerequisite: Psychology or Sociology Major or Minor. It is also strongly recommended that students take PS/SO341 Statistics in Behavioral Science prior to taking PS/SO 340. **(Also listed as PO 340 and SO 340.)**.Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed and interpreted.

PS 341 Statistics in Behavioral Science. (5 quarter hours)
Prerequisite: PS or SO major or minor or permission, college algebra or equivalent. **(Also listed as PO 341 and SO 341.)** Planning and conduct of behavioral science research with emphasis upon elementary statistical analysis of behavioral science data.

PS 352 Abnormal Psychology. (5 quarter hours)
A close consideration of the biological, biochemical, genetic, psychological, and psychosocial factors in behavior pathology. Issues of diagnosis, prognosis, and treatment will be studied.

PS 368 Industrial and Personnel Psychology. **(Also listed as GBA 368.)** (5 quarter hours)
The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing, and industrial counseling. (Sometimes taught on a pass/fail basis.

PS 375 Organizational Behavior. (Lab Fee.) (5 quarter hours)
Prerequisite: PSA 346. **(Also listed as MG 375 and PSA 375.)** A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. (Sometimes taught on a pass/fail basis.)

PS 380 Experimental Psychology. (5 quarter hours)
Prerequisite: Psychology or Sociology major or minor and PS/SO 341 Statistics in Behavioral Science. **(Laboratory included.)** An introductory course in experimental methods and procedures in psychology and sociology. Topics of discussion will include: hypothesis formation, internal and external validity, true experimental designs, quasi-experimental designs, single-subject designs, evaluation research, data collection, ethics, and formal reporting.

PS 402 Seminar in Psychotherapy. (5 quarter hours)
Prerequisite: PS 352 Abnormal Psychology. An introduction to personality theory and the techniques of counseling and psychotherapy. An approach to psychotherapy and psychotherapeutic techniques will be emphasized within which various schools of thought can be considered in terms of a common framework.

PS 404 Drugs and Behavior. (5 quarter hours)
The study of the multi-dimensional variables applicable to the problem and treatment of addictive disorders. Common drugs of abuse as well as "designer" drugs will also be discussed.

PS 406 Physiological Psychology. (Lab Fee.) (5 quarter hours)
A study of the relationships between physiological and psychological functions with special emphasis on mind-body interaction and the physiological explanations for human behavior. Topics of study include: nervous and endocrine systems, sleeping and waking; ingestive behavior; sexual behavior; reinforcement, punishment, motivation; emotions; and learning (disabilities, dysfunctions, etc.).

PS 410 History and Systems of Psychology. (5 quarter hours)
A consideration of the intellectual and philosophical traditions of psychology. The course spans pre-Socratic thinkers to the intellectual concerns of the current global era.

PS 441,442,443,444 Special Topics in Psychology. (1-5 quarter hours) To be offered on occasion of student demand or need.

PS 460 Directed Studies in Psychology. (1-5 quarter hours)

PS 461 Tests and Measurements. (Lab included). (5 quarter hours)
Principles and procedures of measurement and evaluation to include consideration of effective evaluative methods, construction of classroom tests and use of standardized tests.

PS 470, 471 Practicum in Psychology. (5 quarter hours)
Prerequisite: Senior standing and approval of instructor. **(The course includes a weekly seminar with discussion and evaluation of experiences in the field.)** Provides supervised experiences in appropriate community agencies, institutions, industrial or research settings.

Public Safety Administration (PSA) Courses

PSA 314 Legal Issues in Public Safety Administration. (5 quarter hours)
An examination of the laws, rules, and regulations that have general applicability to public safety agencies. Topics covered include codes and ordinances, legal responsibilities of public safety agencies, and enforcement procedures and administrative powers.

PSA 349 Human Resources Management. (5 quarter hours)
A study of the technical functions of HRM. Emphasis is on their application to programs that foster employee commitment to objectives in a competitive, global economy.

PSA 375 Organizational Behavior. (5 quarter hours)
A consideration of human behavior in organizational settings with emphasis on individual processes, group processes and organizational structure and functions. (Sometimes taught on a pass/fail basis.)

PSA 377 Public Administration. (Also listed as PO 377). (5 quarter hours)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

PSA 425 Strategic Management Concepts for Public Safety Management. (5 quarter hours)
An examination of the interrelationships among the various functions of public safety agencies, and a critical inquiry into the process of effective decision making. Readings in professional journals, written reports, and case analysis will be emphasized.

PSA 441,442,443,444 Special Topics in Public Safety. (1-5 quarter hours)
To be offered on occasion of student demand or need.

PSA 445 Contemporary Issues Seminar in Public Safety. (5 quarter hours)
An examination of contemporary topics that profoundly impact all public safety agencies. Subjects addressed include laws, court rulings, and regulatory agency requirements. Utilizes a research seminar format.

PSA 455 Ethics for Public Administrators (Also listed as JS 455 and PO 455.) (5 quarter hours)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

PSA 465 Public Safety Administration Internship. (Also listed as JS 465 .) (5 quarter hours)
Provides supervised administrative experiences in appropriate public safety agencies. This course includes routine seminars with discussion and evaluation of experiences in the field.

PSA 475 Research Practicum in Public Safety. (5 quarter hours)
Provides supervised administrative experiences in an appropriate agency. Includes the development of a results oriented, total quality management survey of an actual public safety agency.

Physics (PY) Courses

PY 301/302/303 Physics. (Lab Fee.) (5 quarter hours each)
Prerequisites: MA 303 and MA 304. A calculus-based introduction to the principles of mechanics, heat, sound, electricity, magnetism, and light.

PY 305 Introduction to Modern Physics. (5 quarter hours)
Prerequisite: PY 303. The development of quantum physics from a historical perspective. Introduction to relativistic kinematics, wave/particle duality, and atomic and nuclear structure.

PY 306 Heat and Thermodynamics. (5 quarter hours)
Prerequisite: PY 303 and MA 306. (CH 430 may be substituted for this course.) A study of calorimetry, equations of state, heat transfer and the laws of thermodynamics.

PY 308/309 Mechanics. (5 quarter hours each)
Prerequisite: PY 303 and MA 421. A study of the laws and principles of statics, dynamics, vectors, torques, conditions for equilibrium, and moments of inertia. The solution of many problems is required.

PY 311/312 Electricity and Magnetism. (5 quarter hours each)
Prerequisite: PY 303, MA 421; MA 316 is recommended. The theory of electromagnetic fields and waves as developed from the basic experimental laws. Application of these theories is made to DC and AC circuits. Emphasis is placed upon techniques of problem solving.

PY 344 Principles of Optics. (Lab Fee.) (5 quarter hours)
Prerequisite: PY 305, MA 421. A study of optical phenomena including wave motion, reflection, refraction, image formation and dispersion.

PY 345 Physical Optics. (Lab Fee.) (5 quarter hours)
Prerequisite: PY 344. Selected topics in classical and modern physical optics. Covers polarization, interference, Fresnel and Fraunhofer diffraction, Fourier methods, coherence, stimulated emission, lasers, and holography.

PY 410 Introduction to Solid State Physics. (5 quarter hours)
Prerequisite: PY 305, MA 421; MA 316 is recommended. Structure, electrical and magnetic properties of solids. Phenomena covered include lattice vibrations and the band theory of metals, semiconductors, and insulators.

PY 414 Nuclear Physics. (5 quarter hours)
Prerequisite: PY 305. The structure of the atomic nucleus, isotopes, natural radioactivity, the laws of radioactive transformation, transmutation, nuclear reactions, and nuclear structure.

PY 415/416 Introductory Quantum Physics I & II. (5 quarter hours each)
Prerequisite: PY 305, MA 428. Introduction to quantum mechanics, Schroedinger wave equation, applications to microscopic systems; Fermi-Dirac and Bose-Einstein statistics, and the special theory of relativity.

PY 418 Statistical Thermodynamics. (5 quarter hours)
Prerequisite: PY 416. The concepts of temperature, entropy and the chemical potential are developed from the principles of equilibrium quantum states. Quantum statistics are developed.

PY 420 Problems in Theoretical Physics. (5 quarter hours)
Prerequisite: Permission of Instructor.

PY 435/436 Senior Laboratory. (3 quarter hours each)
Prerequisite: PY 305, PY 309, and PY 312. Selected experiments from modern physics, electricity and magnetism, optics, and thermodynamics.

PY 441,442,443,444 Special Topics in Physics. (1-5 quarter hours)
Prerequisite: Permission of Instructor. To be offered on occasion of student demand and need.

PY 460 Directed Study and Research in Physics. (1-5 quarter hours)
Prerequisite: Permission of Instructor.

Religion (RE) Courses

***RE 301 Major Religions of the World.** (5 quarter hours)
A study of the principal non-Christian religions of the world in comparison with Christianity.

***RE 303 Current Religious Movements and Issues.** (5 quarter hours)
An examination of current religious issues and movements which are influential in the thought and practice of modern society.

***RE 312 History of Judaism.** (5 quarter hours)
Presents Judaism from the destruction of the Temple through medieval times. Examines the world of Talmud, Midrash, Response and the general Diaspora. Requires reading from historical and tenetial sources.

***RE 314 History of Islam.** (5 quarter hours)
Presents Islam from its beginning, in an historical, religious and geographical context, to its major geographical, doctrinal and sectarian spread internationally.

***RE 320 Introduction to the Old Testament.** (5 quarter hours)
A study of Hebrew history and thought as recorded in the **Old Testament.**

***RE 321 Introduction to the New Testament.** (5 quarter hours)
A study of the beginnings of the Christian faith and church as recorded in the **New Testament.**

***RE 325 Philosophy of Religion. (Also listed as PH 325.)** (5 quarter hours)
A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality and the belief in life after death. Special attention is given to the impact of science upon religion.

***RE 327 Sociology of Religion. (Also listed as SO 327.)** (5 quarter hours)
The interaction, interpretation, and inter-relationships of religion, society, and individual morality in American religious behavior and institutions.

RE 330 Biblical Hebrew Grammar I. (5 quarter hours)
Inductive approach, utilizing the Biblical narratives, especially in Genesis and the Books of Kings.

RE 331 Biblical Hebrew Grammar II. (5 quarter hours)
Emphasis on conjugations, syntax, and morphology, Hebrew poetry and Hebrew narrative.

***RE 335 History of Christianity. (Also listed as HY 335.)** (5 quarter hours)
A survey of the background and origin of the Christian movement and its development to the present time.

RE 340 New Testament Greek for Beginners I. (5 quarter hours) Greek grammar utilizing **New Testament** vocabulary.

RE 341 New Testament Greek for Beginners II. (5 quarter hours) Continuation of RE 340.

***RE 351 Christian Thought Today.** (5 quarter hours)
A critical survey of three major trends in the interpretation of Christianity today: conservatism, liberalism and neo-Reformation thought.

***RE 403 Religion in Life.** (5 quarter hours)
A study of Christian ethics which examines the meaning of righteousness in Christian context and its implications for decision-making in today's world.

***RE 409 Christian Thought in Early Centuries.** (5 quarter hours)
A study of Christian thought in Jesus, Paul and other leaders in the first centuries.

***RE 412 The Hebrew Prophets.** (5 quarter hours)
An inquiry into the origin, nature, and development of the Hebrew prophetic movement, and an examination of the lives, times, and messages of the latter **Old Testament** prophets.

***RE 413 The Wisdom and Devotional Literature of the Old Testament.** (5 quarter hours)
A historical and faith analysis of the Books of Job, Ecclesiastes, Song of Solomon, Proverbs, Psalms and other fourth and third century BC **Old Testament** writings.

***RE 415 Religious Dimensions in Literature and the Arts.** (5 quarter hours)
A study of various theological themes as they appear in literature and the arts.

RE 441,442,443,444 Special Topics in Religion. (1-5 quarter hours)
To be offered on occasion of student demand or need.

RE 460 Directed Study/Research in Religion. (1-5 quarter hours)
Open only to superior majors. May be repeated for up to ten additional hours of credit.

Special Education (SE) Courses

SE 301 Introduction to the Exceptional Child. (5 quarter hours)
(*Required of all teacher-education majors.*) A general survey course which addresses etiology, identification, incidence, curriculum modification, parent interaction and mainstreaming of exceptional children. (Requires field experience.)

SE 305 Meeting the Needs of Exceptional Vocational Education Students (Vocational and Technical Education Majors) (5 quarter hours)
A general survey course which addresses the identification, characteristics, needs, and legal rights of the adolescent and adult exceptional learner. Instructional/curriculum modifications and interagency planning to assist in serving the unique needs of these students will also be addressed.

SE 310 Learning Disabilities: Theories and Issues. (5 quarter hours)
A course designed to help the student become familiar with the background theories, current questions, and possible solutions in the field of learning disabilities. (Requires field experience.)

SE 330 Planning Curriculum and IEP's for Students with Learning Disabilities. (5 quarter hours)
Prerequisite: Previous coursework. This course will develop a knowledge of educational taxonomies and skills in selecting and developing instructional sequences, selecting and writing appropriate objectives in an individualized educational program, and evaluating those objectives through the use of teacher-made mastery assessments.

SE 400 Classroom Management and Discipline. (5 quarter hours)
A course designed to develop an understanding of classroom dynamics and the skills to deal effectively with a variety of discipline and management problems.

SE 410 Assessment of Exceptional Children. (Lab Fee.) (5 quarter hours)
Prerequisite: Previous coursework. A course designed to develop an understanding of assessment principles and purposes; it will also develop skill in administering a variety of educational diagnostic tests and procedures.

SE 420 Alternative Instructional Strategies. (5 quarter hours)
Prerequisite: all other reading and math coursework. A course designed to provide the pre-service teacher with alternative corrective procedures for a variety of presenting academic and social problems. (Requires field experience.)

SE 430 Advanced Diagnostic and Implementation Strategies. (Lab Fee.) (5 quarter hours)
Prerequisite: All other coursework except SE 440, SE 450 and ED 488. A course designed to develop expertise in test administration, diagnosis of problems, and setting up instructional strategies for a variety of students in a simulated school setting.

SE 440 Meeting the Needs of Adolescents with Learning Disabilities. (5 quarter hours)
Prerequisite: Previous coursework. A course designed to develop an understanding of the learning disabled adolescent. It will stress an appreciation of the adolescent's academic, social, and vocational needs. (Requires field experience.)

SE 450 Professional Development Seminar. (5 quarter hours)
Prerequisite: Previous coursework. This course is designed to improve the skills of the individual student prior to the student internship. It is based on a clinical teaching model and allows the professor and student to select from a variety of options (e.g. advanced research skills, remedial composition skills, public speaking skills) the approach necessary to strengthen and advance the individual student's professional development. (Requires field experience.)

SE 470 Parent and Professional Conferencing Techniques. (5 quarter hours)
Prerequisite: Previous coursework. A course designed to help the prospective educator develop communication skills and ethical standards in communicating programs and problems of the exceptional learner to parents, professionals and other appropriate personnel.

Sociology (SO) Courses

NOTE: Introduction to Sociology is prerequisite for all sociology courses listed below.

SO 300 Moral Values in Today's Society. (Also listed as PH 300.) (5 quarter hours)
A sociological approach to the study of morality combined with a philosophical examination of what moral value is and how moral values may be realized in today's society. Emphasis will be given to specific current moral issues.

SO 304 Sociology of Work. (5 quarter hours)
Consists of sociological analysis of work in preindustrial and industrial societies; a consideration of problems involved in the conceptual and empirical study of occupations and professions; an examination of the process of professionalization, and the study of leisure and the social consequences of changes in occupations and professions.

SO 312 Majority/Minority Group Relations. (5 quarter hours)
A study of the principles and processes which shape the patterns of relations between majority groups, racial, ethnic and other groups, with emphasis on American society, along with a comparison of intergroup relations in other societies.

SO 314 Population Study. (5 quarter hours)
The relationship of demographic factors to the social structure. Trends in fertility, mortality, population growth, distribution, migration, and composition.

SO 327 Sociology of Religion. (Also listed as RE 327.) (5 quarter hours)
The interaction, interpretation, and interrelationships of religion, society, and individual morality in American religious behavior and institutions.

SO 340 Methods of Behavioral Science Research. (Also listed as PO 340 and PS 340). (5 quarter hours)
Prerequisite: Psychology or Sociology Major or Minor. It is strongly recommended that students take PS/SO341 Statistics in Behavioral Science prior to taking PS/SO340. Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed and interpreted.

SO 341 Statistics in Behavioral Science. (5 quarter hours)
Prerequisite: PS or SO major or minor or permission, college algebra or equivalent. **(Also listed as PO 341 and PS 341.) (Laboratory included.)** Planning and conducting behavioral science research with emphasis upon elementary statistical analysis of behavioral science data.

SO 350 Introduction to the American Legal System. (Also listed as JS 350 & PO 350.) (5 quarter hours)
This course is a review of basic legal doctrines and processes in the U.S. system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide pre-law majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

SO 351 Political Sociology. (Also listed as PO 351.) (5 quarter hours)
Explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and minority group relations.

SO 360 The Contemporary American Family. (5 quarter hours)
A study of the origin and evolution of the family as a social institution and the relationship of family structure to social organization.

SO 361 Social Analysis. (5 quarter hours)
A study of the basic principles of social organization including an examination of the structure and function of groups and complex organizations including social institutions, with special emphasis on their operation in American society.

SO 362 Deviant Social Behavior. (5 quarter hours)
An in-depth examination of the social implication of labeling deviant behavior, its effects upon both the individual and society.

SO 363 Social Structure and Personality. (5 quarter hours)
An analysis of the relationship of the culture and individual behavior through social influences.

SO 401 Adult Corrections. (Also listed as JS 401.) (5 quarter hours)
Socioeconomic facets of crime and principles and practices of delinquency, probation and parole, interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed.

SO 441,442,443,444 Special Topics in Sociology. (1-5 quarter hours)
A study of social issues and contemporary social problems and their consequences.

SO 452 Advanced Criminology. (Also listed as JS 452.) (5 quarter hours)
Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation.

SO 453 Juvenile Delinquency. (5 quarter hours)
An in-depth examination of juvenile delinquency within a sociological framework. Includes both a theoretical and practical emphasis.

SO 460 Directed Research Studies in Sociology. (5 quarter hours)
Designed to examine selected topics from a sociological perspective. Open to senior level majors by approval.

SO 461 Sociological Theories. (5 quarter hours)
An historical examination of the theories and principles of sociological theory with emphasis on current theory and its relationship to research.

SO 464,465 Seminar and Field Observation in Social Work. (5 quarter hours each)
Prerequisite: Permission of instructor. This course will entail approximately six to eight hours of active field observation per week in cooperation with specific social work agencies in this area and bi-weekly in-class seminar.

SO 471 Aging in a Mass Society. (5 quarter hours)
A study of the aging process, the special problems encountered by the aging and by the institutions of society involved in the care of the aging.

SO 490 Senior Sociology Seminar. (2 quarter hours)
Students synthesize material presented in courses on theory, methods, statistics, as well as an understanding of issues in substantive areas by preparing a written critical analysis of several published research articles. Graduating seniors majoring in sociology must complete this course or the exit exam to demonstrate competency. Enrollment should be only in the last quarter before graduation.

Social Science (SS) Courses

SS 300 Principles of Social Science. (5 quarter hours)
(Required of students seeking the Bachelor of Science in Education degree majoring in History, Political Science or Psychology.) A comprehensive course designed to explore the philosophies and concepts upon which the social sciences are based. Includes History, Psychology, Sociology, Political Science and Philosophy.

SS 301 Social Science Research Methods. ***(Should be taken at the beginning of the junior year.)*** **(Also listed as PO 301 and HY 301.)** (5 quarter hours)
A course designed to develop the techniques of social science research and to explore varying historical interpretations. Also aims at preparation of teaching materials.

SS 310 Modern Economics. (Also listed as EC 310.) (5 quarter hours)
A macro examination of the operation of modern economic systems including price determination, aggregate demand and supply theory, public policy options, and the philosophical foundations of free market and command systems.

SS 321 Money and Banking. (Also listed as EC 321.) (5 quarter hours)
Prerequisite: Principles of Economics. A study of how money, credit and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of income determination, as well as recent trends in banking.

SS 323 Introduction to Managerial Economics. (Also listed as EC 323.) (5 quarter hours)
A one-quarter course that analyzes the behavior of individual firms and households carrying on production or consumption. The material provides a practical examination of important microeconomic principles behind the operation of any modern business and explains the analytical tools used in making effective management decisions.

Vocational and Technical (VE) Courses

VE 259 Basic Technical Specialty (32-65 quarter hours)
This course number designates credit awarded for the journeyman level training in a technical specialization area. Validation by completion of a nationally recognized competency examination may be required

VE 279 Transfer Credit in Vocational and Technical Specialization Area. (32-65 quarter hours credit)
This course number designates transfer credit for any vocational, career or technical course from postsecondary vocational schools, technical colleges, technical institutes or any of the approved military programs and other schools. ***(May not be granted concurrently with VE 259.)***

VE 302 History and Principles of Career/Technical Education. (5 quarter hours)
A course designed to relate the development of vocational and technical education from historic apprenticeships to contemporary vocational and technical programs. Philosophies and principles of vocational and technical education are also reviewed.

VE 432 Methods of Teaching Career/Technical Education. (Lab Fee.) (5 quarter hours)
A review of teaching strategies, procedures, audio-visual laboratory and concrete experiences which may be used to develop specific performance objectives for instruction.

VE 433 Learning Resources and Technology in Career/Technical Education (Lab Fee.) (5 quarter hours)
Includes teaching devices and methods of application; desirable teaching facilities; motivation and development of skill, reasoning qualities, lesson planning. Computer lab included.

VE 434 Course Development and Evaluation in Career/Technical Education. (5 quarter hours)
A course designed to provide a knowledge of the problems, techniques, and procedures in the selection and organization of subject matter for instructional purposes. Each student is required to develop a two-year vocational curriculum suitable for implementation in vocational schools.

VE 435 Industrial and Shop Safety. (5 quarter hours)
Identifies potential safety hazards as they pertain to vocational education shops in the schools and industrial shops. Accident prevention techniques are provided. OSHA is introduced to the student in his or her area of skill concentration.

VE 436 Vocational Information Guidance. (5 quarter hours)
An introductory course in vocational guidance to provide the principles and techniques necessary to organize and operate vocational guidance services in the public school.

VE 438 Classroom/Laboratory Management and Student Leadership Development. (5 quarter hours)
Provides a knowledge of the problems, techniques, and procedures used to maintain and manage vocational and industrial shops for instructional purposes or for manufacturing. Deals with the organization, management, and care of shops. **(Requires field experience.)**

VE 439 Career/Technical StudentYouth Organizations. (5 quarter hours)
Provides the procedures for establishing, implementing and operating student organizations and advisory committees.

VE 440 Testing and Evaluation in Vocational Education. (5 quarter hours)
A course designed to review the techniques and methods used to measure and interpret students achievement.

VE 441,442,443,444 Special Topics in Vocational Education. (1-5 quarter hours)
To be offered on occasion of student demand or need.

VE 445 Functions of the Coordinator. (5 quarter hours)
Prepares the student to organize and administer the various programs in vocational education that are of a cooperative nature. **(Requires field experience.)**

VE 446 Individualizing Instruction in the Vocational and Technical Programs. (5 quarter hours)
A study of instructional strategies and procedures for meeting the individual needs of students.

VE 450, 451, 452 Practicums in Advanced Technical Studies. (5-15 quarter hours)
Prerequisite: Must be in-service teacher. Individually designed laboratory studies in the state of the art of a variety of technologies.

VE 459 Advanced Vocational and Technical Specialty (0-20 quarter hours).
This course number designates credit that is to be awarded for advanced industrial or educational work experience (Non-teaching) in the specialization area. No credit will be granted for work experience which does not exceed in responsibility the original level of training.

VE 460 Directed Study/Research in Vocational Education. (5 quarter hours)
To be offered on occasion of student demand or need.

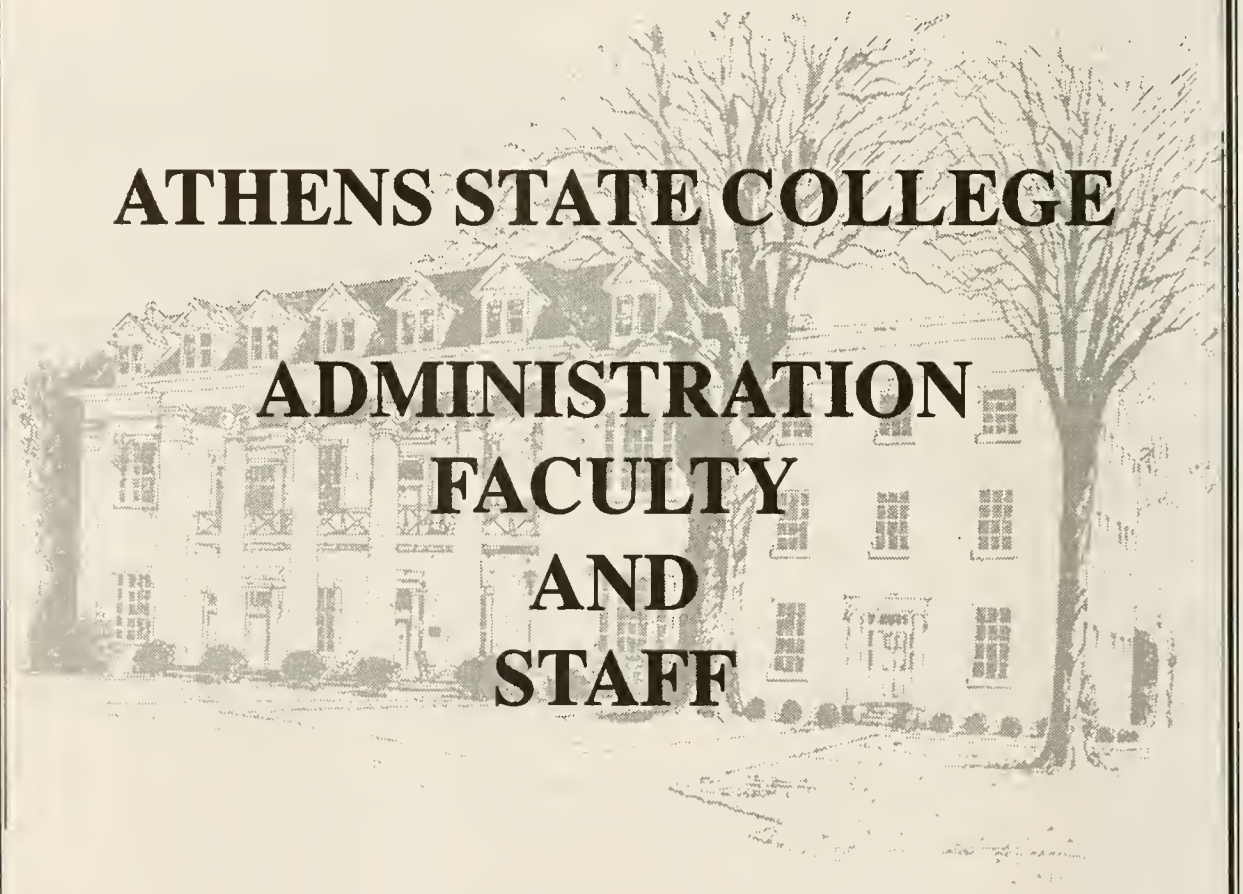
VE 461 Related Training in Vocational Education. (1-5 quarter hours)
Courses designed to include attendance at an approved industrial, company-operated school for the purpose of providing the vocational teacher with advanced related technical training. Courses are open to qualified teachers or individuals preparing to enter this field of teaching. Detail planning for each course will be conducted by a team of postsecondary trade and industrial teachers from throughout the state, Academic Deans of Technical Colleges, Presidents of Technical Colleges, State Department Representatives and the academic personnel of the college. Planning relates to ED 460 also.

VE 469 Vocational and Technical Specialty (Training Experience 0-10 quarter hours.) ***(Limited to in-service teachers.)***
Five quarter hours credit may be awarded for each year of documented vocational specialty teaching experience verified by the director or supervisor in vocational and technical school. A limit of ten quarter hours credit is granted. Only five quarter hours may be earned for a 12-month period. This teaching experience must have been supervised and evaluated and may be from an approved military school, industrial and business school, proprietary school, or public vocational school at either the secondary or postsecondary level.

VE 470,471,472 Practicum - Supervised Work Experience (Lab Fee) (5 quarter hours each)
Prerequisite: Admission to the Teacher Education Program. College/University supervised work experience in a program area work setting.

VE 483,484,485 Practicum in Teaching Vocational and Technical Education (In-service.) (5 quarter hours each)
A series of studies designed to expand the current teaching skills of in-service teachers of technical subjects. These courses may not be substituted.

VE 487 Internship in Vocational and Technical Education (Pre-service). (15 quarter hours)
A course which provides an opportunity for prospective teachers to observe and implement instruction in a technical college setting under the guidance of a competent critic/teacher. Participation in the full school program is required.



ATHENS STATE COLLEGE

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Steve Clark, Microcomputer Systems Coordinator. B.S., University of North Alabama.

Debbie Miller, Programmer/Analyst. B.S. Lawrence Institute of Technology.

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